SITE CHARACTERIZATION AND REMEDIATION PLAN ADDENDUM

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

Site Information:

East Pecos 22-3 Produced Water Gathering Line

Incident Numbers nAB1614039576 & nAB1616628496

Unit C Section 35, Township 26 South, Range 29 East

Eddy County, New Mexico

(32.004234, -103.955950)

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan Addendum (SCRPA) detailing site assessment and delineation soil sampling activities associated with two overlapping inadvertent releases of produced water at the East Pecos 22-3 Produced Water Gathering Line (Site) (**Figure 1** in **Appendix A)**. WPX proposes this SCRPA, which summarizes completed remediation activities and details remediation objectives to rectify environmental impacts at the Site, in accordance with re-evaluated Site Closure Criteria.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit C, Section 35, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.004234°, -103.955950°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land management (BLM).

nAB1614039576

On April 15, 2016, it was discovered that a produced water gathering line failure resulted in approximately 55 barrels (bbls) of produced water to be released onto a Right-of-Way (ROW) and travel west, intersecting a lease road and another ROW south of the lease road. No fluids were able to be recovered. On May 16, 2016, the New Mexico Oil Conservation Division (NMOCD) and BLM were notified. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on May 18, 2016, and was assigned Incident Number nAB1614039576. The observed extent of the release is presented in **Figure 2** in **Appendix A**.

nAB1616628496

On June 9, 2016, it was discovered that the produced water gathering line associated with Incident Number nAB1614039576 failed again and resulted in approximately 15 barrels (bbls) of produced water to be released and follow the same flow path as Incident Number nAB1614039576. On the same day as the release discovery, immediate notice was given to the NMOCD and the BLM. WPX reported the release to the NMOCD on a Form C-141, which was received by the NMOCD on June 13, 2016, and was assigned Incident Number nAB1616628496. The observed extent of the release is also presented in **Figure 2** in **Appendix A**.

In May, June and November 2016, a third-party environmental contractor conducted soil sampling in attempt to characterize and delineate the overlapping releases, henceforth referred to as the Area of Concern (AOC). Based on laboratory analytical results from the sampling events and the location of the AOC, WPX submitted a deferral request for the Incident Numbers nAB1614039576 and nAB1616628496 on August 16, 2018, proposing to leave residual impacted soil in place around existing infrastructure on the ROW. On August 20, 2018, the NMOCD denied the deferral report, due to incomplete delineation. As a result, Etech has provided semi-regular updates and notifications to the NMOCD via email detailing notable Site progress.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;

- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Based on the initial desktop review, the closest continuously flowing or significant water course to the Site appeared to be an ephemeral stream identified on the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper), located to the west within 300 feet of the Site. The Wetland Mapper identifies the closest wetland as a riverine (R4SBJ) located within 300 feet west of the Site. However, according to the New Mexico Environment Department (NMED) and Surface Water Quality Bureau (SWQB), more recent and comprehensive wetland inventory maps[1] have been developed through the state of New Mexico as part of an ongoing effort to accurately document all wetlands across the state. The NMED Wetlands program has been updating the New Mexico Wetland inventory since 2011. These updated maps are available through NMED's resources and is a more recent wetland identifier and more specifically focused on New Mexico's environmental features. Based on the NMED mapper, no riverine or wetland features are displayed within 300 feet of the Site. The absence of such features on the NMED layer suggests that the Wetland Mapper's classification may not accurately represent the true environmental conditions at the Site. The updated wetland mapper used to identify wetlands at the Site can be referenced in **Figure 1B (I)** in **Appendix A**. A full report of how the NMED and SWQB maps and classifies wetlands can be referenced in **Appendix B**.

The closest identified blue dashed line on the USGS map is located approximately 1.65 miles southeast of the Site (**Figure 1** in **Appendix A**). As per Subsection P of NMAC 19.15.17.7, a significant watercourse requires "[…] a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse". As such, the identified feature on the USFWS Site does not appear to meet one or more of the remaining qualifications of a significant watercourse as defined in Subsection P of NMAC 19.15.17.7.

On April 29, 2025, Etech conducted a field investigation to validate the presence or absence of a significant watercourse within 300 feet of the release extent boundary according to the parameters set forth in Subsection P of NMAC 19.15.17.7. A bed and bank were not identified throughout the course of the field survey of the potential watercourse. Only faint erosional paths or swales aligned with the topographic gradient were observed. Additionally, the features did not appear to connect to a larger watercourse as the feature is intersected by access roads, well pads, and multiple pipeline Right-of-Ways (ROW) visible on a satellite aerial imagery. There was no evidence of fluvial deposition inside the faint erosional features, instead it splayed out onto the desert floor. As such, the feature identified by Wetland Mapper does not appear to meet either of the requirements of a "significant watercourse" according to Subsection P of NMAC 19.15.17.7, therefore no significant watercourse lies within 300 feet of the Site. Aerial imagery and photographic evidence from the field survey are provided in **Figure 3** in **Appendix A**.

Based on the initial desktop review of the current BLM Carlsbad Field Office (CFO) karst potential map, this Site is located in a high potential karst area; however, no voids were encountered during all drilling activities for boreholes advanced within or adjacent to the Site, up to 55 feet bgs. As such, surface and subsurface instability appeared unlikely. As requested by the NMOCD when pursuing a deviation

[1] Exploring Southeastern New Mexico Wetlands

from the most stringent closure criteria in a critical/high/medium karst potential occurrence zone, WPX respectfully feels the obligation to provide verification that the Site where the subject releases occurred is not "unstable" has been met by combined methods of geotechnical drilling and subsequent aerial and geophysical electro-resistivity surveys. "Unstable area" as defined by 19.15.2 NMAC through 19.15.39 NMAC and more recently via the NMOCD Karst Public Notice is a "location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all a division-approved facility's structural components. Examples of unstable areas are areas of poor foundation conditions, areas susceptible to mass earth movements and karst terrain areas where karst topography is developed because of dissolution of limestone, dolomite or other soluble rock. Characteristic physiographic features of karst terrain include sinkholes, sinking streams, caves, large springs and blind valleys."

In February of 2025, WPX retained BLM approved karst contractor, Dave Decker, PhD, with Southwest Geophysical Consulting, LLC to conduct an Environmental Karst Study, which included both aerial and geophysical assessments. The survey concluded:

- No surface karst features existed within 200 feet of the Site, and
- No shallow anomalies such as large voids or related karst features were detected within the survey area.

With no surface or subsurface karst features identified within proximity of the Site and the interpreted "flat-lying" stratigraphy beneath the Site, the Site was considered as stable ground. The full report, recorded as Environmental Karst Study Report, is included **Appendix C**.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based a recent measurement of a nearby well on the JC Williams Yard owned by WPX, located approximately ½ mile northwest of the Site. The well does not appear to have an identification number corresponding to the New Mexico Office of the State Engineer (NMOSE) or United States Geological Survey (USGS) well records. However, a depth to groundwater measurement at the well was obtained on August 15, 2022, and measured 82.9 feet bgs. A second, more recent measurement was obtained by Etech on August 25, 2025, with a reported depth of 84.4 feet bgs. The location of the JC Williams well is provided in **Figure 1A** in **Appendix A**. The current well record referenced for depth to groundwater determination is included in **Appendix D**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1A**, **Figure 1B**, **1B (I)** and **Figure 1C** in **Appendix A.**

Based on the results from the desktop review, Environmental Karst Study, and the estimated depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria*
Chloride	Environmental Protection Agency (EPA) 300.0	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

* *Soil sample was collected in the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13, if exceeding the reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH*

DELINEATION SOIL SAMPLING AND LABORATORY ANALYTICAL RESULTS

From May 2024 through November 2024, Etech conducted delineation soil sampling activities to identify the vertical and horizontal extents of the AOC. Thirteen delineation borings (BH01 and BH13) were advanced via hand auger and/or sonic rig, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected in 2-foot intervals and up to 55 feet bgs from each delineation soil sampling location for laboratory analyses (representing at minimum the highest observed field screening concentrations and the greatest depth). Field screening results and soil descriptions from all delineation activities are included on soil sampling logs shown in **Appendix E**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix F**.

Delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of COCs.

The results from delineation activities indicated that further investigation was required to complete horizontal delineation of chlorides, so Etech continued additional delineation soil activities to assess the horizontal periphery of soil impacts from June to July 2025. Twenty delineation soil samples (BH14-BH31) advanced via hand auger were driven by field screening soil samples as previously described. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Appendix E**. The locations of the delineation soil samples were mapped with a handheld GPS and are shown in **Figure 2** in **Appendix A**. Photographic documentation during continued delineation activities is included in **Appendix F**.

The additional delineation soil samples were collected and handled as previously described. The soil samples were transported under strict chain-of-custody procedures, to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of COCs.

Laboratory analytical results indicated COC concentrations for all soil samples collected outside of the AOC are below the applicable Site Closure Criteria, and COC concentrations for the soil samples collected within the AOC exceed the applicable Site Closure Criteria up to 4 feet bgs, Laboratory analytical results are summarized in Table 1 in **Attachment G**, and the complete laboratory reports with chain-of-custody documentation is included in **Attachment H.**

PROPOSED REMEDIATION WORK PLAN AND SCHEDULE

Based on the delineation soil sampling results, the following conclusions regarding the release are presented:

- The Site is in a high karst potential area designated by the BLM; however, no subsurface voids were encountered during drilling activities and an Environmental Karst Study, performed by Southwest Geophysical Consulting, LLC, concluded that the Site is stable.
- Based on an extensive desktop review and field verification, no sensitive receptors were identified within proximity of the Site.
- The AOC has been fully delineated in accordance with the proposed Site Closure Criteria and the reclamation standard.

Based on the conclusions drawn above, WPX proposes the following remedial corrective actions:

- Excavation(s) will be guided by referencing delineation laboratory analytical results and ongoing field screening. This will ensure that the excavation advances laterally and vertically until either

the Site Closure Criteria and/or reclamation standard is achieved, or until the Maximum Extent Practical (MEP).The proposed excavation extent can be referenced on **Figure 4** in **Appendix A**. However, advancement of the excavation may be inhibited by active production equipment or utilities, in which case, WPX may implement encroachment requirements for the health and safety of on-site personnel. Such restrictions include:

  - Altering the proposed excavation extent(s) in order to maintain surface and/or subsurface utility and/or production equipment stability.

- The proposed excavation(s) will likely require third-party operator oversight and additional safety measures near their respective subsurface pipelines before or during excavation activities. The third-party operator may implement additional safety precautions at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities. In such an event, WPX will acquire a written acknowledgement from said third-party operator to assume responsibility to remediate residually impacted soils left in place surrounding the respective utility(s). Such restrictions include but are not limited to:

  - Shifting the proposed excavation extent(s) to adhere to established buffer zone(s) around one or more utilities.

- Because the proposed excavation intersects a heavily trafficked lease road, WPX requests a variance, WPX respectfully requests a variance for the removal or deconstruction of State Line Road. State Line Road serves as the main access route and is a critical infrastructure component, providing primary access to multiple facilities and leasehold operations and must accommodate local emergency vehicle access requirements and operator response. Blocking or restricting access along State Land Road would impede emergency response efforts and could pose safety risks to personnel and facilities. Therefore, WPX proposes to scrape the road surface approximately 2 to 3 inches bgs and collect 5-point composite soil samples throughout the scraped area.

  i. WPX believes the proposed action is equally protective of human health the environment and groundwater, as the release showed minimal impact due to hard packed soil on the roadway, which minimizes vertical infiltration. The majority of the road will remain intact, preserving emergency access and reducing disruption to operations. Impacted soil appears to be shallow, where depth to groundwater was determined to be greater than 55 feet bgs.

- Following the completion of excavation activities, 5-point composite confirmation soil samples will be collected from the excavation floor and sidewalls. Confirmation soil samples will be collected, handled, and analyzed for COCs by an accredited laboratory as previously described.

  i. Due to the large excavation(s) square footage (37,313 square feet) WPX requests a sampling variance of which confirmation soil samples represent a maximum of 400 square feet per soil samples. As such, 94 samples are anticipated to be collected from the excavation(s) floors compared to 186 soil samples following the standard 200 square foot soil sampling frequency. The sampling frequency for the sidewalls/edge will remain at 200 square feet.

- The proposed excavation(s) located north and south of State Line Road will be immediately reclaimed following remediation and recontoured to return the Site "as close as possible" to its original condition. The final soil cover will be contoured to match the Site's pre-existing grade to prevent ponding of water and erosion and blend in with the surrounding contours. Additional Site-specific erosion control Best Management Practices (BMPs) will be implemented to prevent stormwater discharges from the disturbance, if determined necessary during regularly scheduled

vegetation Site assessments. BLM Approved Seed Mixture will be hand-broadcasted over the area in the next favorable growing season following BLM revegetation techniques. The selected BLM seed blend will provide the maximum results of vegetation regrowth and ground surface coverage to match pre-existing conditions at the Site.

- Upon receipt and review of excavation confirmation soil sample laboratory analytical results, WPX will determine the appropriate measure of corrective actions that will include:
    - Documenting the removal of impacted soil and restoration at the Site with a subsequent Deferral Report detailing impacted soil to remain in place, assessment, karst survey results, the amount of and correspondence from the BLM, sampling activities, and Site restoration activities including, but not limited to backfilling the excavation with clean, locally sourced soil and restored to "as close to its original state as possible."

      - or -

    - Preparing a SCRP addendum detailing the next course of remedial actions to address the presence of soil impacts at the Site, based off an estimated lateral and vertical extent of impacted soil from soil sampling activities.

WPX believes this SCRPA will meet requirements set forth in NMAC 19.15.29.13 and be a balanced protection of human health, the environment and groundwater. As such, WPX requests approval of this SCRPA.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Erick Herrera at (432) 305-6416 or erick@etechenv.com. **Appendix I** provides correspondence and notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.





Erick Herrera
Lead Project Geologist

Joseph S. Hernandez
Senior Managing Geologist

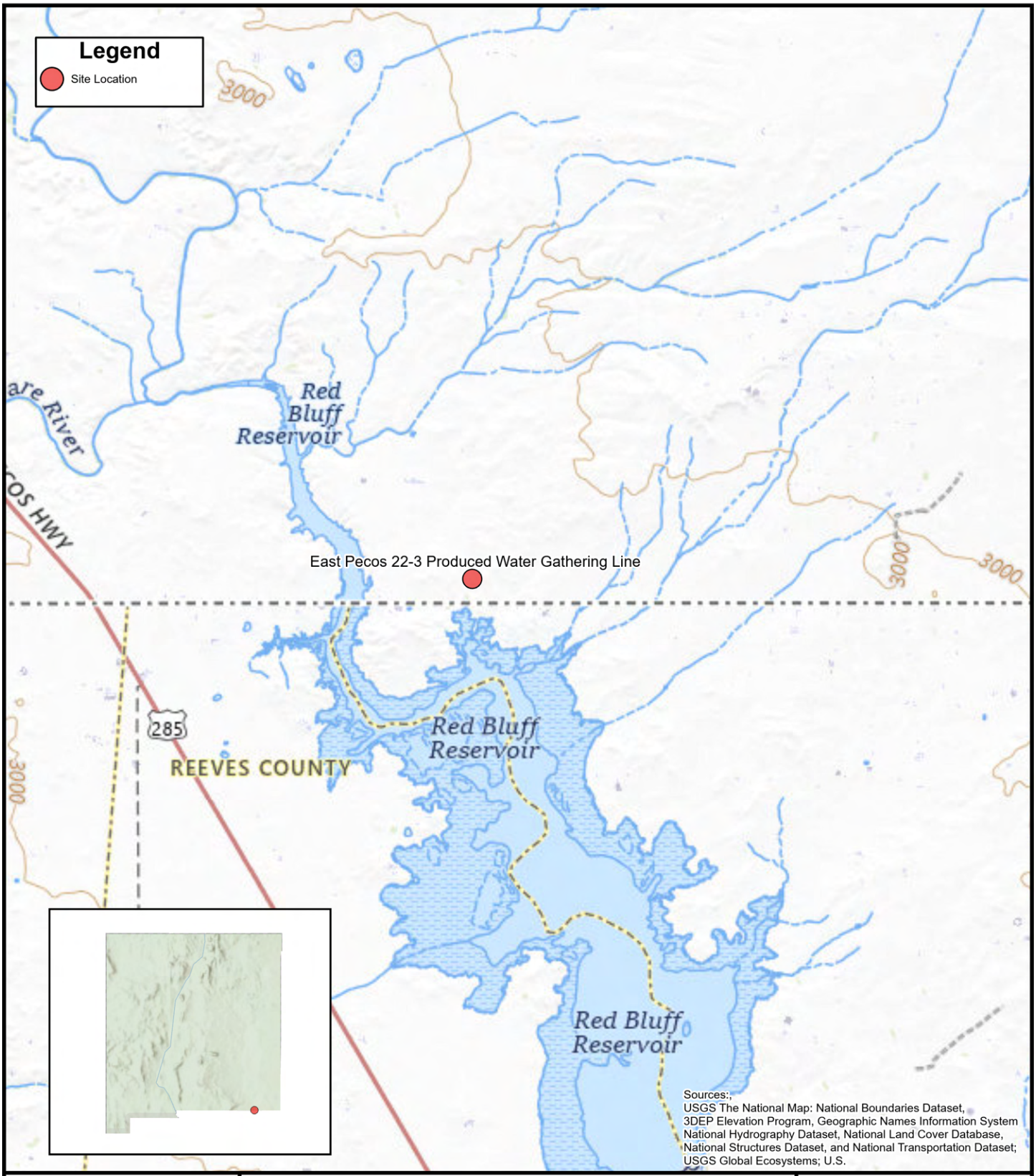
cc: Jim Raley, WPX
New Mexico Oil Conservation Division
Bureau of Land Management

Appendices:

Appendix A	Figure 1: Site Location Map
	Figure 1A: Site Characterization Map – Groundwater
	Figure 1B: Site Characterization Map – Surficial Receptors
	Figure 1B (I) Site Characterization Map – Surficial Receptors
	Figure 1C: Site Characterization Map – Karst Potential
	Figure 2: Delineation Soil Sample Locations
	Figure 3: Watercourse Survey
	Figure 4: Proposed Excavation Areas
Appendix B	NMED Reference Mapping and Classification of Wetlands in the Eastern Plains of New Mexico
Appendix C	Environmental Karst Study Report
Appendix D	Referenced Well Records
Appendix E	Soil Sampling Logs
Appendix F	Photographic Log
Appendix G	Tables
Appendix H	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix I	Correspondence & Notifications

APPENDIX A

Figures



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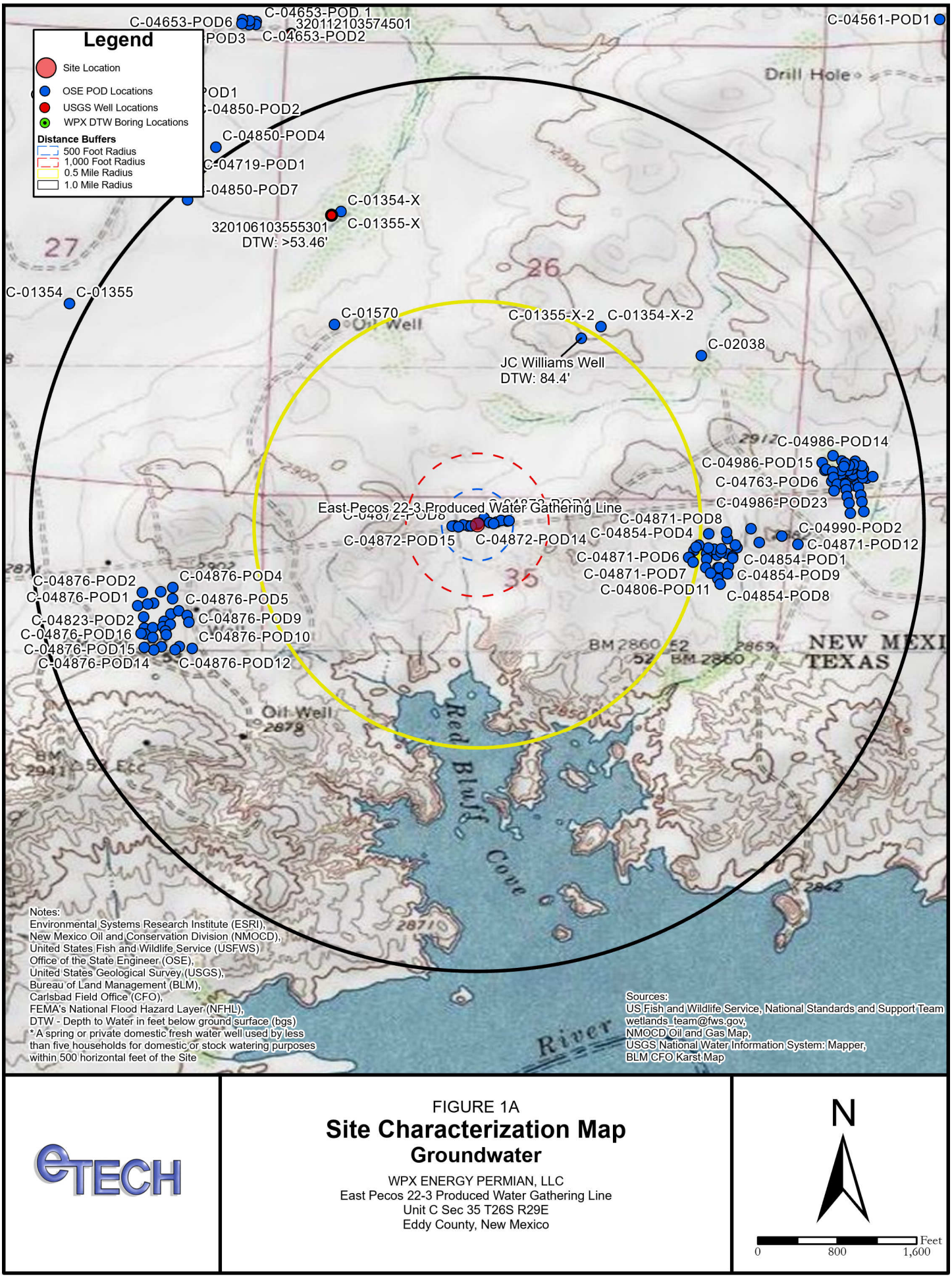
FIGURE 1

Site Location Map

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 5,500 11,000 Feet



eTECH

FIGURE 1A

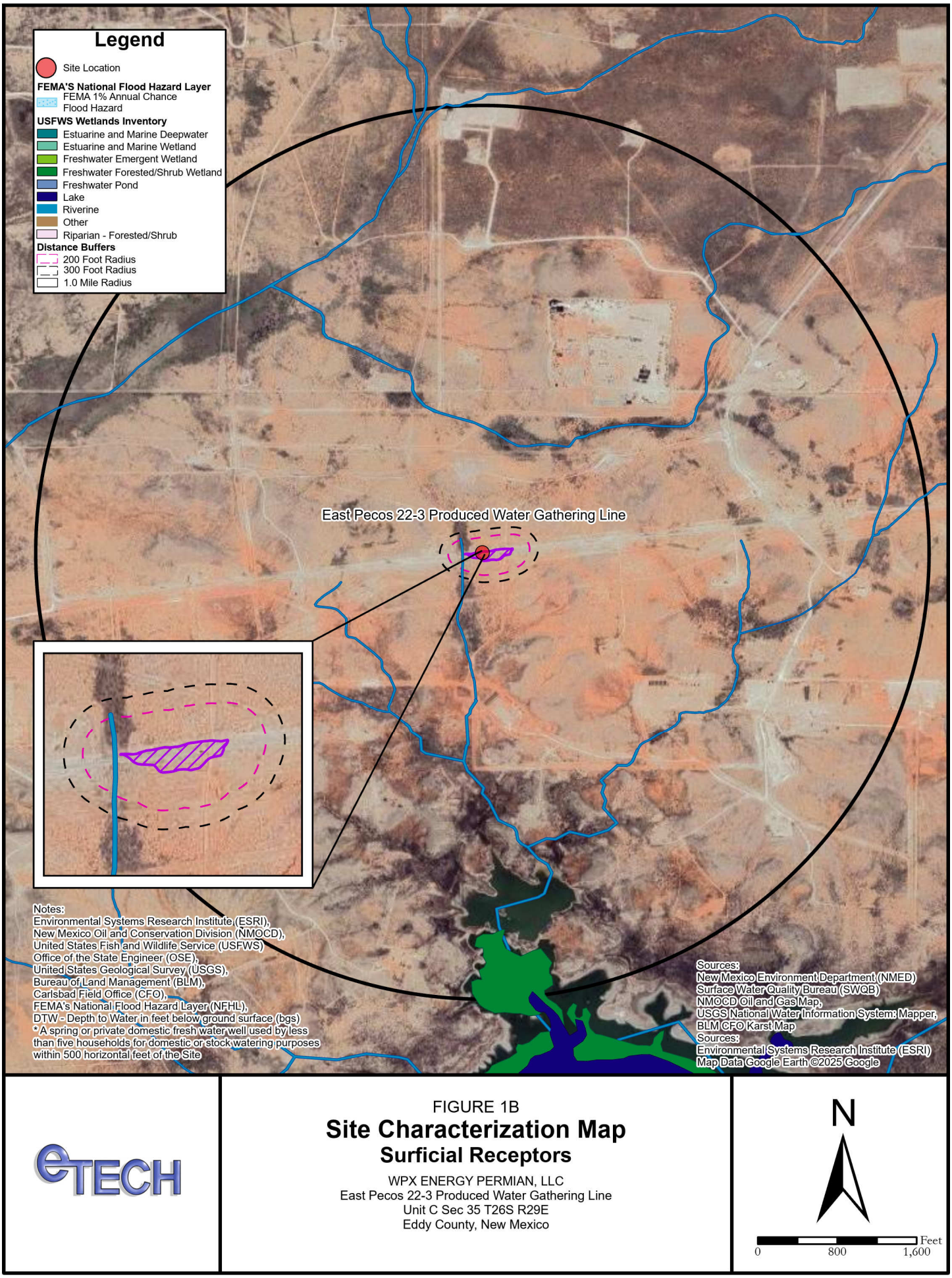
Site Characterization Map

Groundwater

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 800 1,600 Feet



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FIGURE 1B

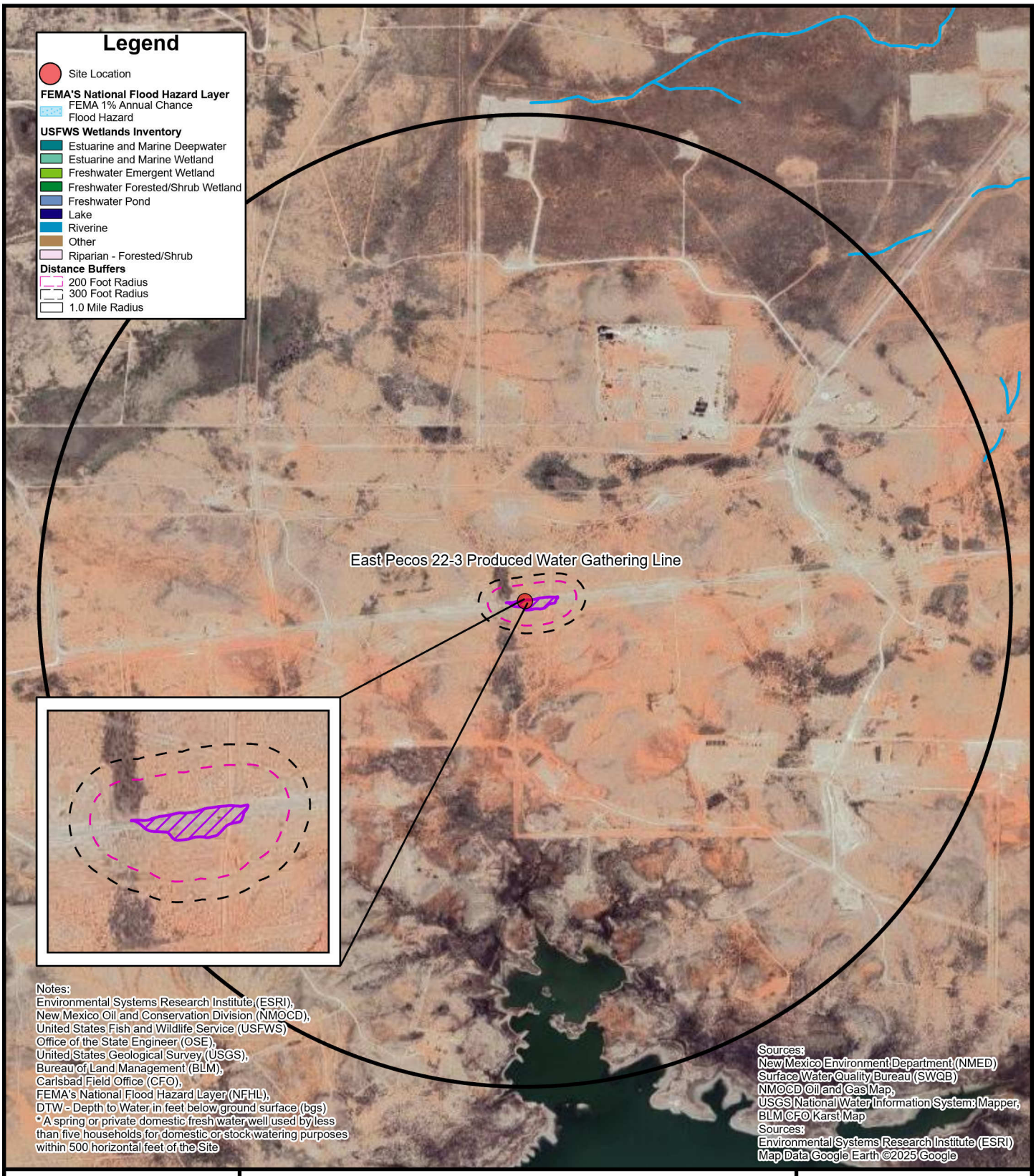
Site Characterization Map

Surficial Receptors

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 800 1,600 Feet



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FIGURE 1B (I)

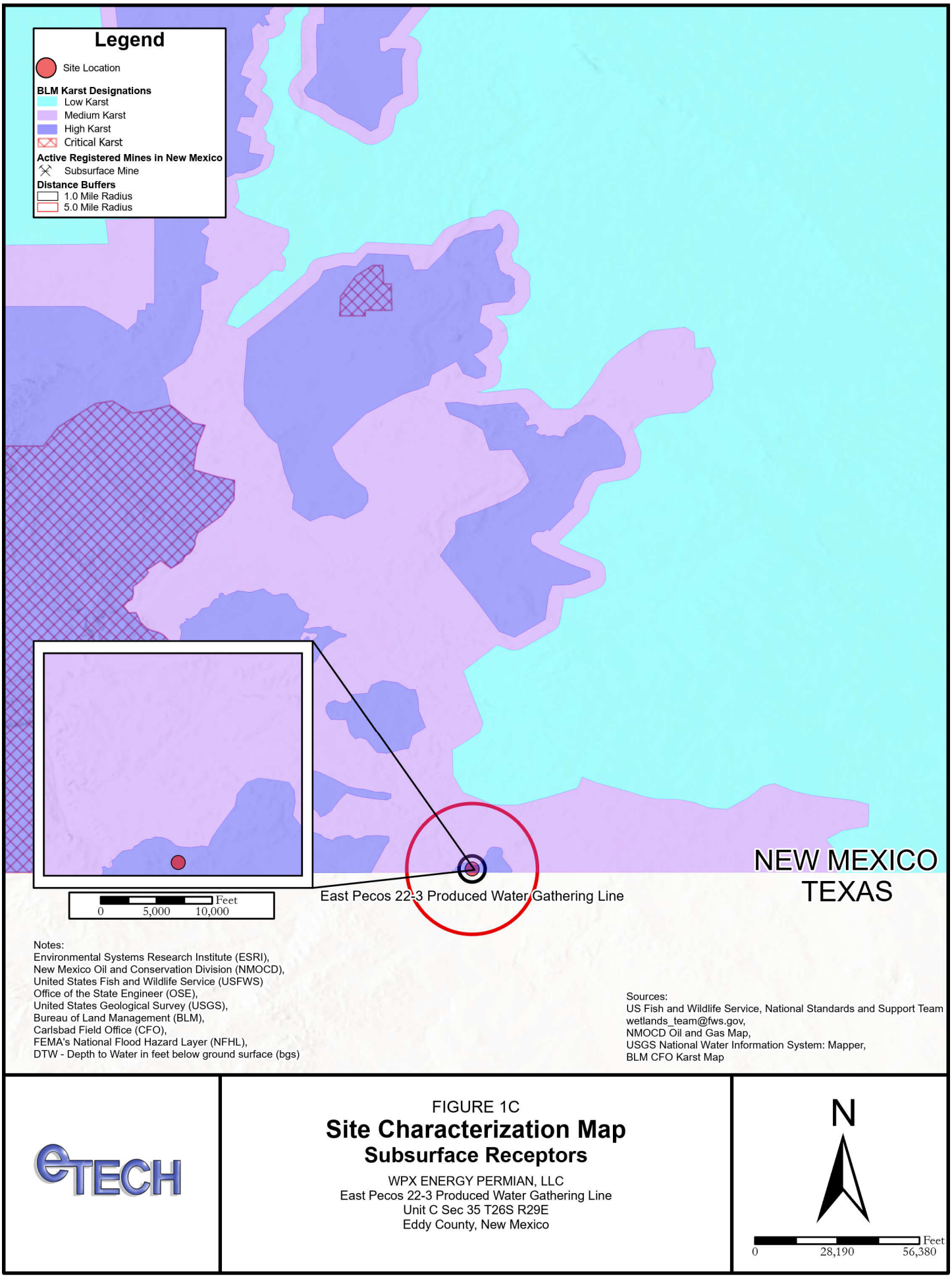
Site Characterization Map

Surficial Receptors

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 800 1,600 Feet



Notes:
Environmental Systems Research Institute (ESRI),
New Mexico Oil and Conservation Division (NMOCD),
United States Fish and Wildlife Service (USFWS)
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM),
Carlsbad Field Office (CFO),
FEMA's National Flood Hazard Layer (NFHL),
DTW - Depth to Water in feet below ground surface (bgs)

Sources:
US Fish and Wildlife Service, National Standards and Support Team
wetlands_team@fws.gov,
NMOCD Oil and Gas Map,
USGS National Water Information System: Mapper,
BLM CFO Karst Map

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FIGURE 1C

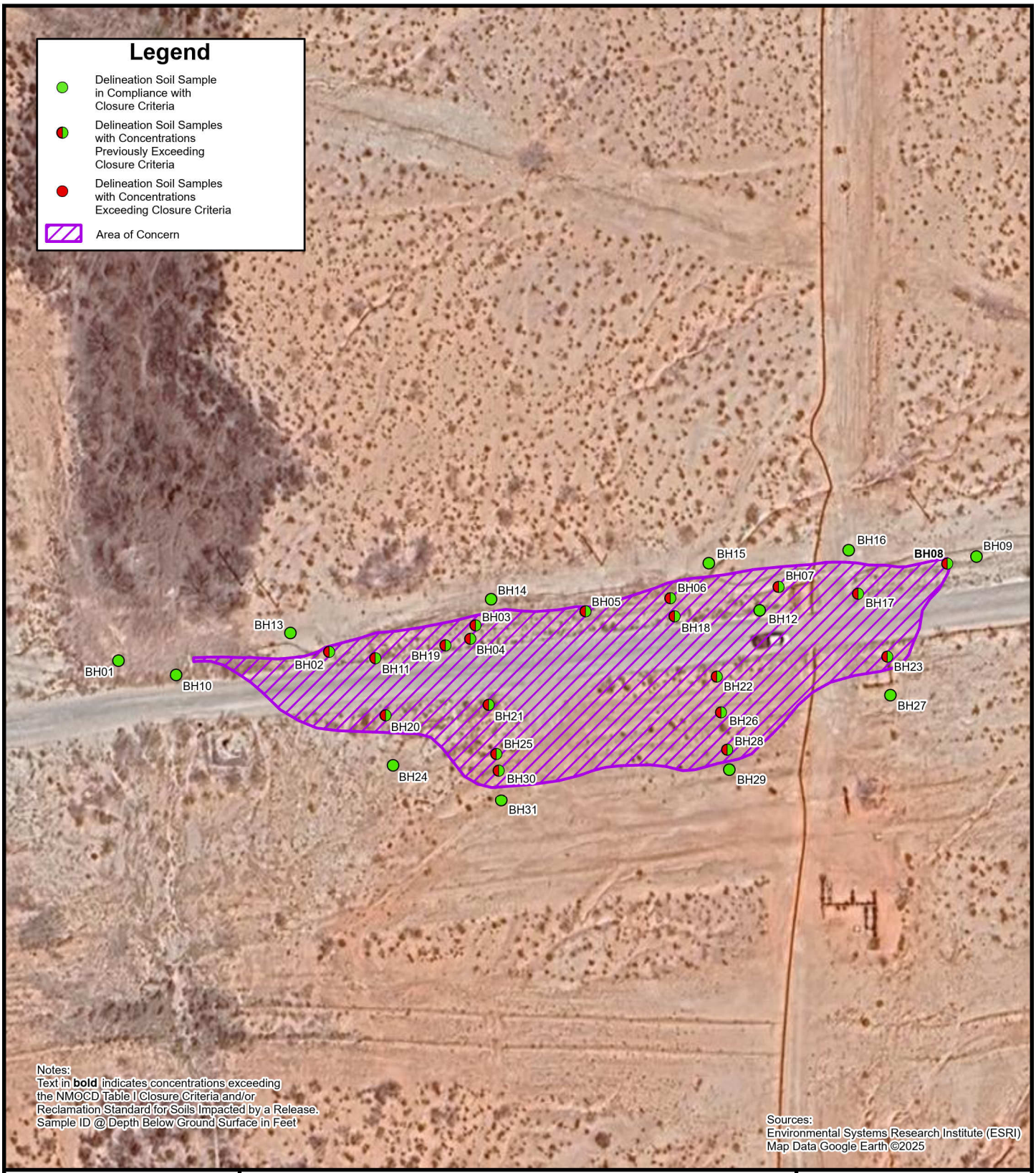
Site Characterization Map

Subsurface Receptors

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

Feet
0
28,190
56,380



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FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 55 110 Feet

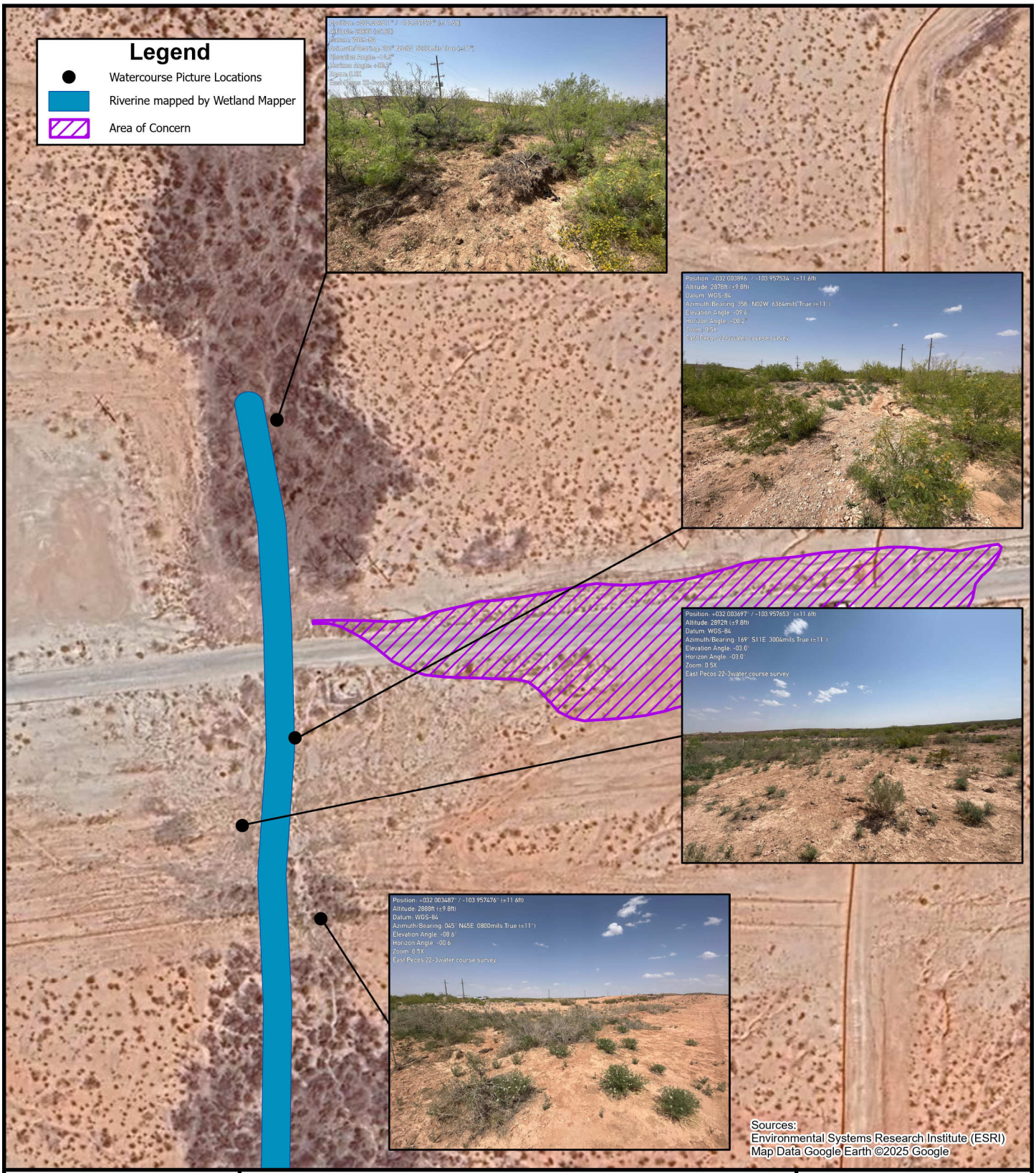


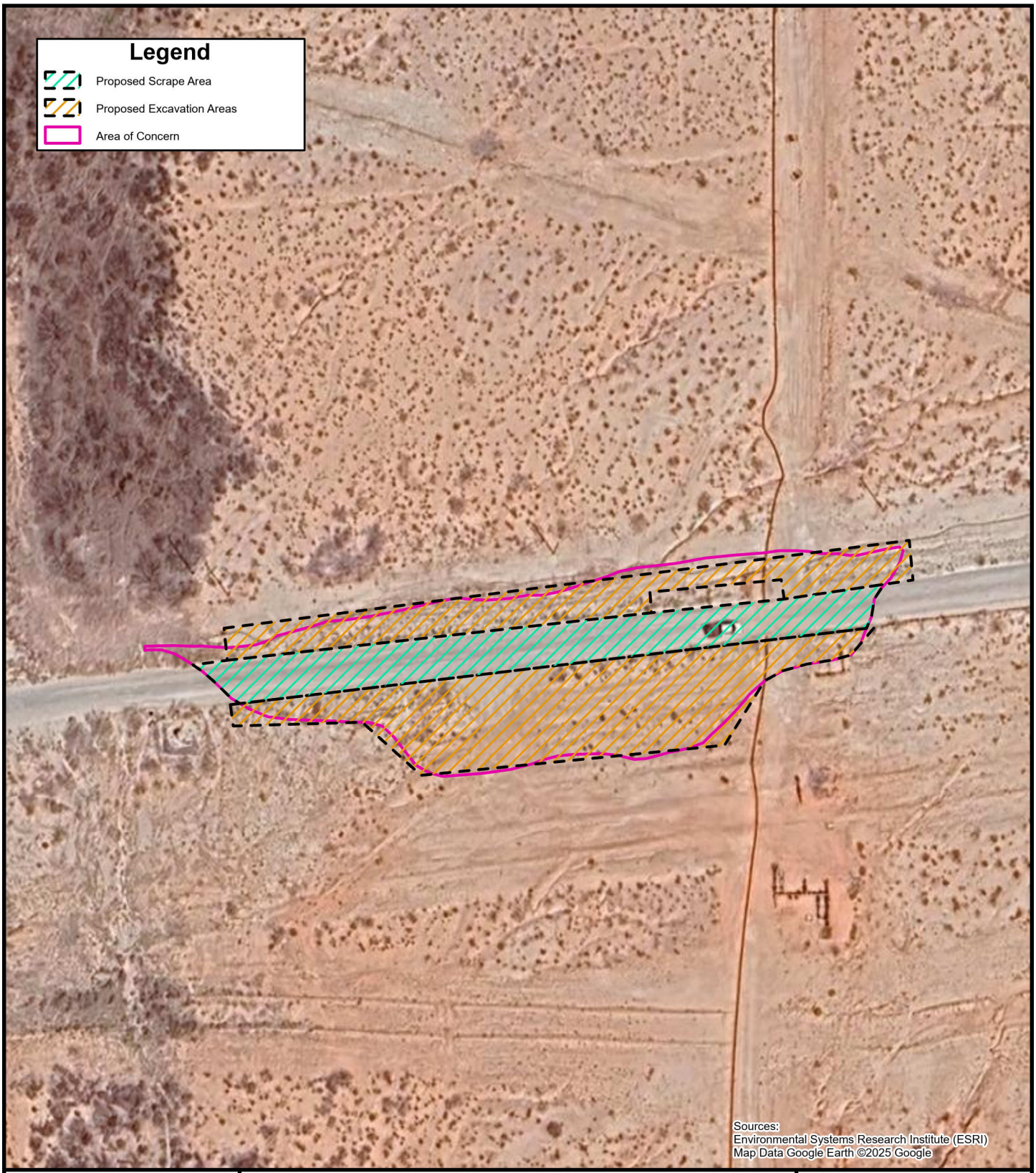
FIGURE 3

Watercourse Survey

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 62.5 125 Feet



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FIGURE 4

Proposed Excavation Areas

WPX ENERGY PERMIAN, LLC
East Pecos 22-3 Produced Water Gathering Line
Unit C Sec 35 T26S R29E
Eddy County, New Mexico

N

0 55 110 Feet

APPENDIX B

NMED Reference Mapping and Classification of Wetlands in the Eastern Plains of New Mexico

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

Mapping and Classification of Wetlands in the Eastern Plains of New Mexico

Assistance Agreement No. CD-01F67201 (FY 2019)



New Mexico Environment Department
Surface Water Quality Bureau
Wetlands Program

Final Report
December 2024

Project Background

The climate in the Eastern Plains project area is semi-arid (~17 inches of annual precipitation). Surface water is scarce, and drought is an ever-present threat. The Eastern Plains of New Mexico project area includes the Pecos River Valley, portions of the Southern High Plains, and the Llano Estacado (Figure 1). In these areas, wetlands are associated with the perennial Pecos River, are found along intermittent and ephemeral creeks, are represented as playas, groundwater-fed depressions, fringes along reservoirs, spring-fed meadows (i.e. cienegas) and excavated impoundments. In the easternmost portion of New Mexico, the Llano Estacado is characterized by extremely flat terrain with scarce draws carrying flowing water during storm events. Most water and wetland resources are contained within thousands of playas surrounded by their own watersheds. These playas are also the main pathway to recharge of the underlying freshwater Ogallala Aquifer which supplies most of the freshwater in the Llano Estacado area.

The current wetlands mapping in the Eastern Plains project area was incomplete when this mapping project was started. Scalable mapping of playas was revised for Curry and Quay Counties in 2006 by the USFWS National Wetlands Inventory (NWI). Much of the western portion of the project area was revised by the NWI in 2010 using 1980s imagery, and with 2000s imagery for much the eastern portion of the project area. No imagery was used in about 25% of the project area. This level of mapping does not meet the FGDC National Wetland Mapping Standard and was intended to be interim. Additional data were available from the Playa Lakes Joint Venture to update the NWI mapping conducted for this project.

Diverse flora and fauna rely on the wetlands, including 44 federal or state threatened or endangered species in the Eastern Plains region (e.g. Piping plover, Least tern, Pecos bluntnose shiner, Pecos gambusia). Water resources along the Pecos River are affected by large reservoirs (Santa Rosa, Sumner, Brantley and Avalon Reservoirs) for the Fort Sumner and Carlsbad Irrigation Districts and groundwater withdrawal for the Pecos Valley Artesian Conservancy District and municipal uses. Threats to the wetlands include surface water impoundment and ground water diversion for industrial, agricultural, municipal, mining and energy development uses. Wind energy development is also having a significant impact on wildlife surrounding playas. Critical springs, cienegas and groundwater-fed saline lakes are threatened by ground water pumping and many have already been lost. Historic farming and ranching practices have had a large impact on soil stability causing infilling of playas resulting in hydrologic and biologic changes. Historically, the project area has been subject to some mineral development for copper and uranium near Santa Rosa, and gypsum, oil and gas, and sand and gravel mining throughout the region. Roads are a significant threat to the region's wetlands, affecting hydrology, drainage pathways and bisecting playa wetlands.

Project Goals

The goal of the SWQB Wetlands Program and many of its Eastern Plains partners is to increase wetland acreage by restoring existing wetlands and protecting isolated and scarce arid-land wetlands. The goal of this project was to map and classify wetlands in the Eastern Plains (east central region) of New Mexico. Mapping was performed in accordance with the National Wetlands Inventory (NWI) protocols, using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979) and *System for Classification of Riparian Areas in the Western United States* (USFWS 2009). Wetlands were also coded in accordance with the landscape position, landform, waterflow path, and waterbody types (LLWW) mapping classification (Tiner 2014) and Regional LLWW Keys for the Western U.S. (GeoSpatial Services 2018). Mapping ratio was at 1:12,000 or better with a minimum mapping resolution to 1/2 half acre and in compliance with the National Wetland Mapping Standard of the Federal Geospatial Data Committee (FGDC). A Technical Advisory Committee (TAC) was established to provide expertise and local knowledge, to help review the wetland function correlation table, and to ensure proper application of LLWW to the project area. New Mexico is developing the New Mexico Rapid Assessment Method (NMRAM), which combines the assessment of wetland condition and function for restoration, planning, and regulatory applications. The LLWW provides information to help assign wetlands to Hydrogeomorphic (HGM) subclasses for NMRAM development. This project included remapping and more accurately mapping wetlands in the Eastern Plains project area, the identification and assignment of wetland functions that can be interpreted as designated uses for wetlands narrative water quality standards, and the assignment of classified segments for developing assessment units for monitoring. Through this effort SWQB assigned ecological functions to wetlands and designated classified wetland segments as a next step toward developing wetland water quality standards. SWQB Wetlands Program staff participated in the NM Geospatial Advisory Committee (GAC) to encourage cooperation and collaboration in wetlands mapping efforts, and to obtain corroborative mapping products such as LIDAR and SSURGO soils updates for New Mexico. Interactive mapping products were created, and the project details presented to a variety of stakeholders, interest groups and other states. This project is necessary for the SWQB Wetlands Program to continue program development and capacity-building in southeastern New Mexico. The mapping products will also provide support in select areas of interest for the SWQB Wetlands Program to identify and target wetlands that need monitoring, restoration and protection.

Project Outputs

The project outputs include:

1. National Wetlands Inventory (NWI) (Cowardin et al. USFWS (1979)) mapping of all wetlands and deep-water habitats in the Eastern Plains project areas uploaded on Wetlands Mapper | U.S. Fish & Wildlife Service for national use.

The wetland features and deepwater habitat features include marshes, floodplains, cienagas, lakes and ponds, playas, and rivers. The project area is nearly 8.3 million acres in size. Based on the final wetland mapping, 8,189,153 acres (~98.7%) of the study area is upland habitat and 110,392 acres (~1.3%) is a combination of wetland, deepwater habitat, and riparian area habitat. Riverine system wetlands make up ~44% of the wetland area, palustrine 37%, and lacustrine 19%.

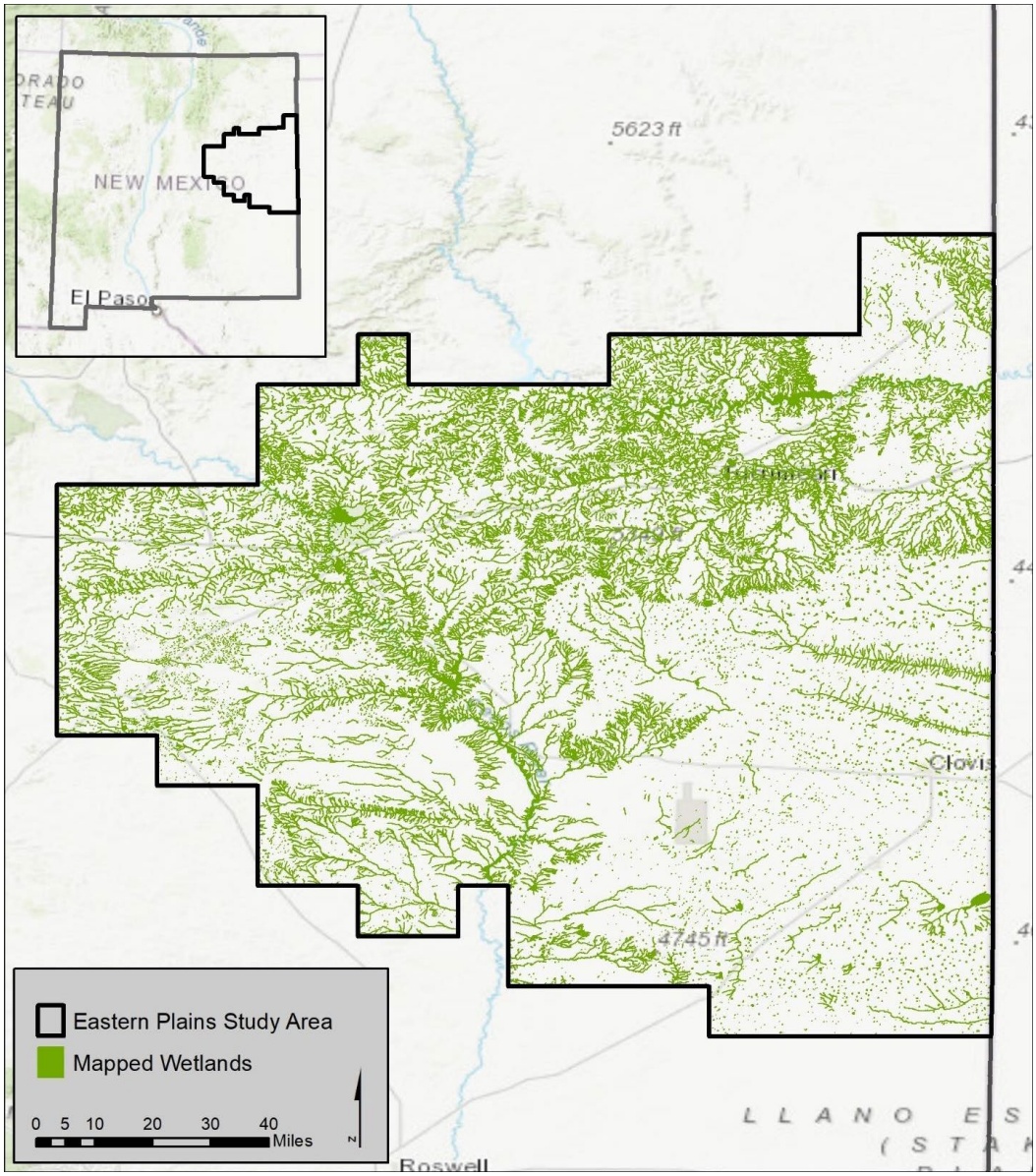


Figure 1. The Eastern Plains Study Area (note that mapped features at this mapping scale look denser due to line width.)

2. Riparian areas were mapped, often adjacent to floodplain wetlands, using "A System for Mapping Riparian Areas in the Western United States" developed by Dick et al. (USFWS 2009). Riparian polygon features are transition zones between rivers or lakes and upland; 195 riparian features equaling approximately 704 acres of riparian areas were captured in the Eastern Plains mapping area.
3. Landscape Position, Landform, Water Flow Path, Waterbody Type (LLWW) classification was completed for all mapped wetland features. Wetland features were assigned codes from the LLWW classification system developed by Tiner (2014). To enhance the LLWW classification system being applied for New Mexico, the team utilized the Water Regime classifications from the NWI (Cowardin et al., 1979) data to contribute to the identification of LLWW Landforms. These Landforms included Basin, Flat, Floodplain, Fringe, or Slope wetland areas. Many unique LLWW attributes or codes were identified in the Eastern Plains project area. These included 276 codes for polygon wetland features.
4. To add richness to the wetland data, wetlands were also characterized by HGM descriptors developed by Brinson (1993) and then correlated to a variety of potential wetland functions. The wetland polygons mapped in the Eastern Plains project area fell into five HGM classes and 11 HGM subclasses. Among the classes, riverine wetlands were most common, with over 49% of total polygons and nearly 52% of wetland area (Table 9). Depressional was second most common, comprising 45% of total area. Lacustrine fringe comprised approximately 2% of wetland area, while Flats and Slopes were each <1% by area.
5. Functional correlation was applied to the wetlands. Mapping for 12 select ecological functions that can be identified from mapping data and applied to the semiarid region were mapped based on a ranking of moderate or high functioning. The ecological functions included Surface Water Detention, Streamflow Maintenance, Groundwater Recharge, Sediment & Other Particulate Retention, Nutrient Transformation, Carbon Sequestration, Bank and Shoreline Stabilization, Fish Habitat, Aquatic Invertebrate Habitat, Waterfowl and Water Bird Habitat, Other Wildlife Habitat, and, Unique, Uncommon, or Highly Diverse Wetland Plant Communities. A series of functional assessment maps overlays were then produced, one map for each of the twelve functions in the project area, that can then be sourced for wetlands water quality standards designated uses and for other uses such the recognition of high functioning wetlands.
6. Mapping and classification for NWI, LLWW, HGM and functional correlation can be accessed on the NMED Interactive Wetlands Map at: OpenEnviroMap. The mapping geodatabase is also available upon request to the SWQB Wetlands Program.

7. This project contributed to the development of a NM Statewide Wetland Story Map "Wading into Wetlands of New Mexico" which was completed by St. Mary's University of Minnesota Geospatial Services (GSS) and SWQB Wetlands Program staff. The Story Map can be found here: Wading into Wetlands of New Mexico HTTPs://storymaps.arcgis.com/stories/81df9f1c7b47467895377e9772964d07



Figure 2. Cover page of the story map, "Wading into Wetlands of New Mexico."

8. As outreach for this project, the Wetlands Program partnered with USFWS Partners for Fish and Wildlife, Natural Channel Design Engineering, Keystone Restoration Ecology and the Grasslans Charitable Foundation to conduct a Playa Restoration Workshop on the Weaver Ranch near Causey, in eastern New Mexico. The attendees learned about numerous free on-line GIS and remote sensing tools as well as drone imagery that can be used for designing restoration and monitoring playas. Participants were in the field to view previously completed playa restoration on the Grasslans Playa, and equipment work restoring playa gullies and drone monitoring was demonstrated. Presentations were given by Sam Ebright and Jake Fleishman of NCDE, and Steve Vrooman of Keystone Restoration Ecology. The Workshop attracted 17 participants from both New Mexico and Texas. Playas of the Southern High Plains are a form of depressional wetlands unique to the High Plains region of the United States.
9. A Story Map was created by Natural Channel Design Engineering about Restoration of Playas of the Southern High Plains entitled "Playa Enhancement, Monitoring and Stability Assessment, Ephemeral Wetlands on the Plains. What these playas can do for us, and what we can do for them." The Story Map emphasizes the features and functions of High Plains Playas, an important freshwater feature in eastern New Mexico. The Story Map can be accessed on the SWQB Wetlands Program website and at the link below.
https://storymaps.arcgis.com/stories/a1e6612037a04c9e9eaf3866efcc10d8



Figure 3. Cover page of the story map, "Playa Enhancement, Monitoring and Stability Assesment" produced by NCDE.

10. Pre and post-mapping field reports and a Contractor Final Report were prepared by GSS and are available upon request to the NMED Wetlands Program.
11. Other products include reference materials, Technical Advisory Committee (TAC) meeting minutes and input to the process, pre- and post-mapping field trip reports, interactive maps for stakeholder use in key areas and on the NMED Wetlands website, and presentations for outreach.
12. A wetland naming application was run for this project to prepare a draft of obtainable classified segments for Wetlands Water Quality Standards. Because only wetlands that will be assessed receive an Assessment Unit name and since we are applying this model to all mapped wetlands, the names are currently unique "Wetland ID" names on the Wetlands Mapper. Defined and applied potential wetland assessment unit codes (Wetland ID names) were derived from HGM maps utilizing a python-based code tool in ArcMaps created by GSS. From the GSS wetland mapping database created for the Eastern Plains project areas, features with the Cowardian Classifications of Riparian and Riverine are identified and removed from the data set (Figure 4). The remaining polygons were dissolved on the three HGM attributes (class, subclass and modifier) to merge adjacent wetlands that share those characteristics (Figure 5). The naming program generates a name that combines a 2-digit code for the HUC 8 that contains the wetland's centroid, an abbreviated HUC 12 name, a short-hand version of the HGM class, subclass, and modifier, and finally a randomly generated number to each wetland in the HUC 12.

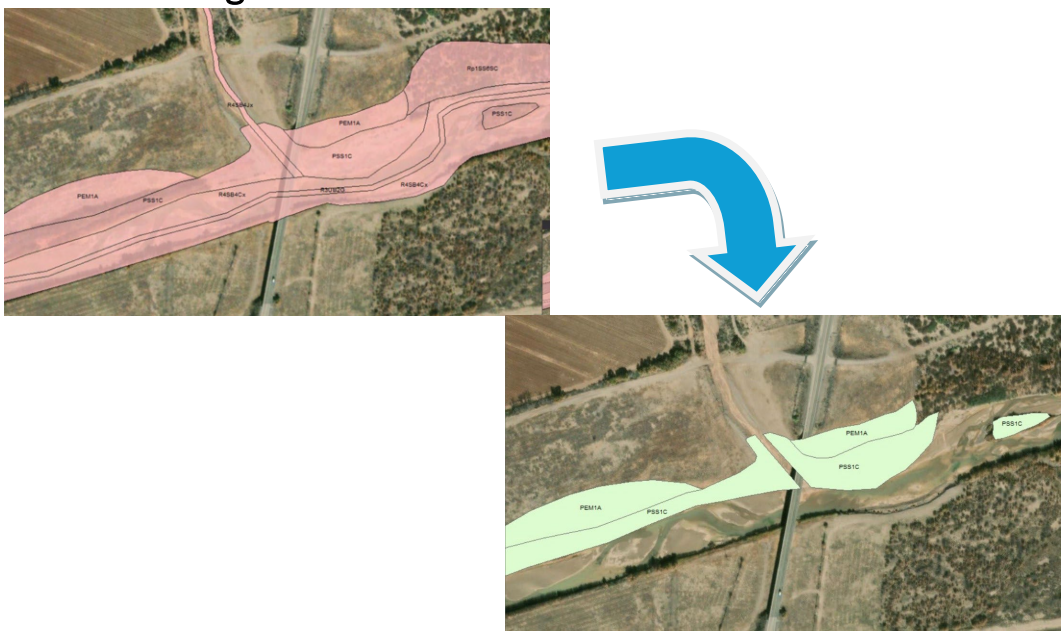


Figure 4. Features with rivers, streams and deepwater habitat are identified and removed from the data set.

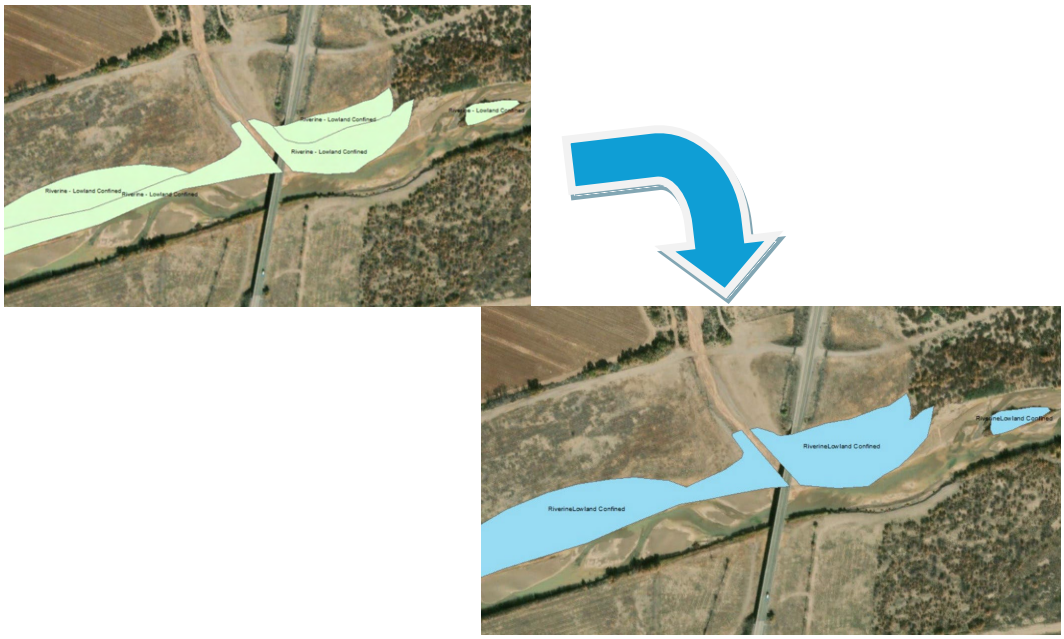


Figure 5. The remaining polygons are dissolved on the three HGM attributes below to merge adjacent like wetlands.

- **HGM_Class**
- **HGM_Subclass**
- **HGM_Modifier**

Project Outcomes

- The project will increase knowledge of the location, extent, and type of wetlands and their functions in the project area on a landscape scale.
- WPO participation in the GAC will advance the use of wetlands mapping and classification, provide a forum to share mapping resources, prevent duplication of efforts, pool funding, keep wetlands mapping current.
- The maps, HGM classification, literature search and advisory committee will advance New Mexico Rapid Assessment Method development for classes of wetlands in the project area.
- Understanding the location and extent of wetlands in the project area by agencies and local governments will help prevent further loss and degradation of wetlands and riparian habitat in an area at risk.
- Story Maps on the NMED SWQB website and mapping products at OpenEnviroMap will help increase understanding of wetland resources by agencies, watershed groups, students and the public.
- Wetlands planning, protection, restoration, mitigation and monitoring by SWQB Wetlands Program is improved through the products of this project.
- Data gaps in Wetlands Action Plan development are filled by wetlands mapping products being available to WAP developers. It will assist in improved ecosystem understanding and long-term protection.

Project Location

The Project occurs in Eastern NM in the Counties of Chaves, Curry, DeBaca, Guadalupe, Harding, Quay, Roosevelt, San Miguel, and Torrence at the following 8-digit HUCs: 11080005, 11080006, 11080007, 11080008, 11090101, 11120101, 11120102, 12050001, 12050002, 12050005, 12080001, 13050002, 13060001, 13060002,13060003, 13060004, 13060005, 13060007. See mapping areas below.

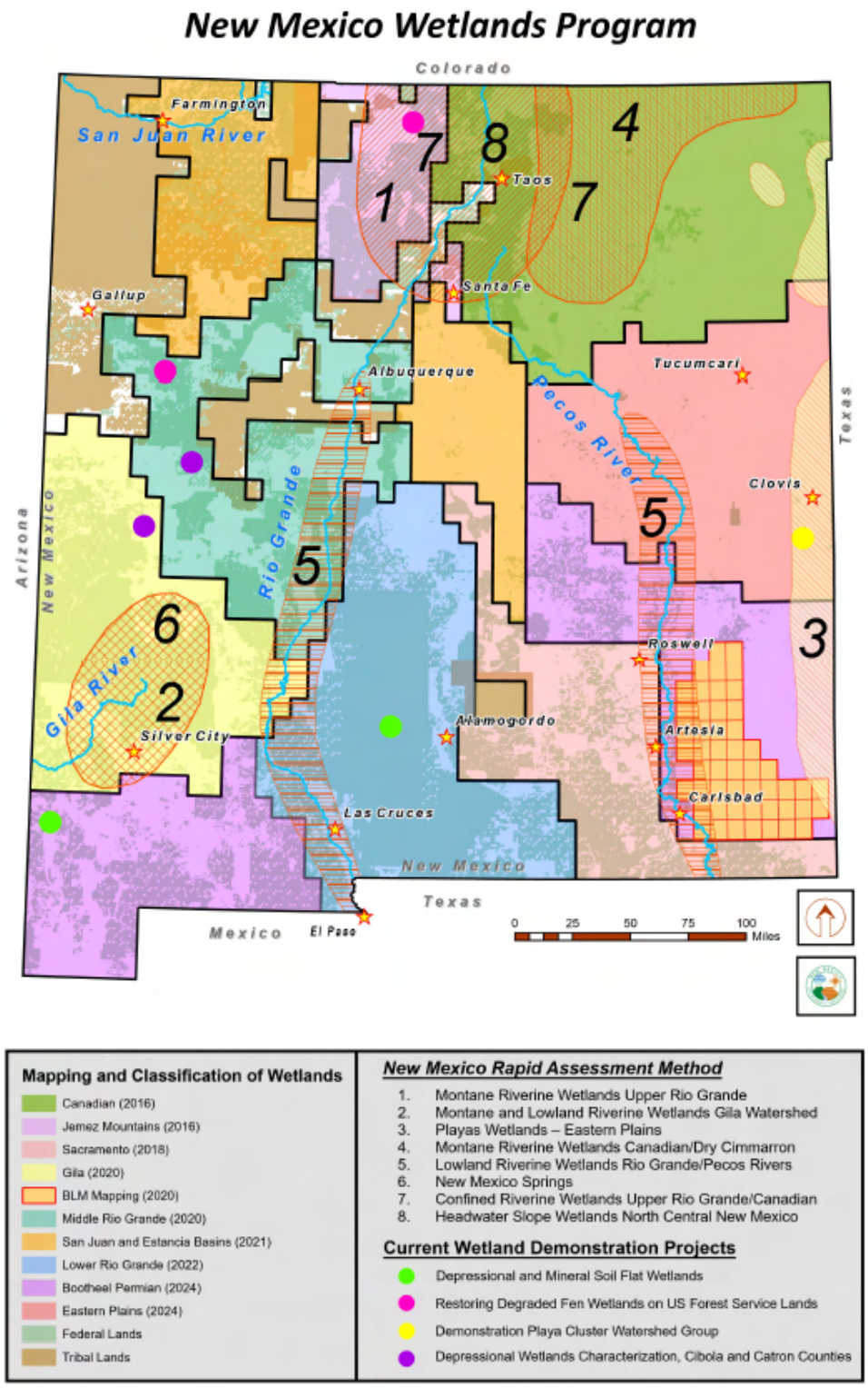


Figure 6. The Eastern Plains Project Area in eastern New Mexico is shown in peach.

Original Timeframe

NMED SWQB Wetlands Program received a partial award from EPA of $333,806 in federal funds for the project on September 11, 2019, with an effective date of October 1, 2019. The match amount for the project remained the original requested amount. The SWQB Wetlands Program received an additional award of $18,000 on May 21, 2020 to bring the federal amount to $351,806.00 which was the requested amount in the project proposal. On August 29, 2023, a no cost extension for grant CD #01F67201-1 was approved by EPA Region 6 to extend the end date to December 31, 2024. On March 14, 2024, the Wetlands Program Coordinator requested EPA Region 6 to move $32,109.00 from personnel to contractual to hire a contractor to assist with outreach for this project since the Wetlands Program was understaffed. The request was approved by EPA on March 27, 2024. This amount was less than 10% of the federal project funds so a formal grant amendment was not needed. The stated goals and objectives of the project remained the same, as well as the key project Tasks and deliverables.

Partners Involved

Saint Mary's University of Minnesota Geospatial Services (GSS) was the principal mapping contractor in partnership with SWQB Wetlands Program involved in the mapping and classification project. Gary Hunt, USFWS Regional Wetland Coordinator provided NWI guidance and assisted with pre- and post-field mapping reviews, as well as coordinating conference calls with NWI Management. USEPA Region 6, Leslie Rauscher and Kyla Chandler provided project progress guidance and technical assistance. SWQB Wetlands Program was involved in the identification of the mapping areas, mapping and classification field trips, ground truthing the mapping data, reviewing the results and development of the Wading into Wetlands of New Mexico story map. Natural Channel Design Engineering was hired and along with SWQB Wetlands Program and other partners (see below) conducted a Workshop, developed materials and handouts, and created a Storymap for Playa Monitoring and Restoration as outreach for the SWQB Wetlands Program. The Project involved a Technical Advisory Committee whose members are as follows:

Technical Advisory Committee Members

Name	
Christopher Rustay	Playa Lakes Joint Venture
Katie Sandbom	
Linda Delay	EMNRD
Redi Riley	US Army Corps
Charlie Cassagnol	Western Ecology LLC
Austyn Chester	
Emile Sawyer	Enchanted Waters LLC
Emily Toczek	SWQB
Ryan Schmidt	CEHMM
Davena Crosley	SWQB

Kate Lacey-Younge	SWQB
Rene Romo	Senator Lujan Ofc
Justin Riggs	US Army Corps
Sandra Tanner	CEHMM
John Busemeyer	NMDOT
Sarah Yates	US FWS
Ashlie Carabajal	City of Ruidoso
Dustin Nelson	SWQB
Susan Ostlie	RGVBB Great Old Broads Wilderness
Frank Scott	Interstate Stream Commission
David Rokus	GSS
Zach Ansell	GSS
Valerie Morgan	National Park Service
John Gwynn	Independent
Antonio Griego	NMDOT
Scott Hebner	US Bur Rec
Mike Freeling	UNM
Wiebke Boeing	NMSU
Constance Williams	NMSU
John Shermann	BLM
Scott P Lerich	BLM
Cassie Brooks	BLM
Matthew Heckel	NMHU/USFS
Corey Durr	BLM
Kurt Anderson	Independent
Katie Kruthaupt	Independent
Luis Castillo	NMTDC ACM
Colleen Cunningham	NMED
John Littlefield	USFS
Randy Sauzo	Independent
Eric Chavez	Senator Lujan Office
Sarah Yates	USFWS

Note: Due to COVID restrictions during the project period, Technical Advisory Committee meetings were held virtually and participants were invited with expertise both from the CD #01F62101 and this project. The non-federal attendees match was split between the two projects.

Playa Monitoring and Restoration Workshop Partners and Attendees

Partners

1. Maryann McGraw	NMED-SWQB
2. Angel Montoya	USFWS Partners
3. Sam Ebright	NCDE, Inc
4. Jake Fleishman	NCDE, Inc
5. Willard Heck	Grasslans and Weaver Ranch

6. Steve Vrooman	Keystone Restoration Ecology
7. Jim Weaver	Grasslans and Weaver Ranch

Attendees

1. Price Rumbelow	Rio Grande Joint Venture
2. Ethan Seavey	USFWS
3. Jocelyn Harimon	NMED-SWQB
4. Shinya Burck	NMED-SWQB
5. Jacob Lobato	Tetra-Tech
6. Lauren Rangel	USFWS
7. Erik Nelson	New Mexico State Land Office
8. Tavin Dotson	Ducks Unlimited
9. Alyssa Besser	NRCS-NM
10. Gary Mizer	NMDGF - Raton
11. Jack Marchetti	NMDGF - Wetlands
12. Nick Loveland	Rio Grande Joint Venture
13. Taylor Bruecher	Rio Grande Joint Venture
14. Maceo Martinet	USFWS Partners

Funding

The original Federal amount was **$351,806.00** and **$123,697.00** match. The federal amount spent was $312,643.41, and the **final match amount** was **$169,314.27 ($45,617.27 overmatched).** See semi-annual reports for details.

Major Project Highlights and Chronology

- NMED SWQB Wetlands Program received a partial award from EPA of $333,806 in federal funds for the project on September 11, 2019 with an effective date of October 1, 2019.
- Emile Sawyer was the Wetlands Program Project Officer (WPO) for this project.
- The WPO drafted and submitted Contract Amendment #3 to add the Eastern Plains subproject to the “Mapping and Classification of Wetlands in New Mexico” contract between NMED and Saint Mary’s University of Minnesota Geospatial Services.
- The revised QAPP (QTRAK #20-178) that includes this project was approved on March 24, 2020 with an expiration date of March 17, 2022.
- The SWQB Wetlands Program received an additional award of $18,000 on May 21, 2020 to bring the federal amount to $351,806.00 which was the requested amount in the project proposal.
- Contract #18-667-2060-0018 Amendment 3 with Saint Mary’s University of Minnesota was approved on June 5, 2020, allowing mapping to commence.

- The Wetland Project Officer (WPO), Wetland Program Coordinator (WPC), and Contractor met on June 18, 2020 for a project kick-off meeting.
- A project geodatabase has been assembled by GSS for the project area. In November 2020, EDAC shared DEM mosaics and LiDAR for Southwestern New Mexico with the WPO and the WPO forward the link to the data to GSS to add to the project database.
- GSS updated the NMED Web App in November 2020 to include data in the Eastern Plains area for the production of linear wetlands, updating them to polygons, and performing consistency reviews based on feedback from Gray Hunt (NWI Mapping Coordinator). GSS mapped linear wetlands in the project area by September 2020 and the data were available to review at

https://smumn.maps.arcgis.com/apps/webappviewer/index.html?id=065224034e164e20a4056bdeac1eb215

- A no-cost Amendment #4 to update some of the tasks in GSS Contract # 18-667-2060-0018 was developed to include virtual meetings, mapping compliant with USFWS National Wetlands Inventory (NWI) Guidance 2.0, and to change map book deliverables to a statewide story map.
- The Pre-Mapping field review scheduled for October 2020 was postponed due to Covid travel restrictions.
- The USFWS NWI circulated a draft guidance for implementing NWI Version 2.0 in November 2020.
- A meeting was held between SWQB Wetlands Program staff and National Wetlands Inventory staff on November 18, 2020 to discuss the implications of NWI Version 2.0 data additions to New Mexico mapping data and consistency of mapping data statewide.
- NWI staff committed to helping NMED implement the changes that NWI Version 2.0 requires.
- Wetlands Program staff met with Andy Robertson and Roger Meyer (GSS Story Map developer) to work on the New Mexico Statewide Wetland Story Map.
- The WPO attended the Geospatial Advisory Committee meeting representing the Wetlands Program on November 10, 2020, and December 8, 2020, under this project.
- The No-Cost Amendment #4 to GSS contract was signed on May 17, 2021 to update some tasks for current wetlands mapping sub-projects including this Eastern Plains Subproject.
- A pre-mapping field review trip was conducted from April 18 through May 01, 2021, with the Eastern Plains Project Area visited on April 27 through May 1, 2021. The Field Trip was attended by GSS Analysts, SWQB Staff and the USFWS Regional Wetlands Coordinator.



Figure 7. GSS (Josh Balsiger, Zach Ansell, and Dave Rokus) and USFWS (Gary Hunt) staff field checking a potential wetland site on the Pre-mapping field review April 17-28, 2021.



Figure 8. Andy Robertson, Josh Balsiger and Zach Ansell (GSS) observing waterfowl at pond 3 miles Southeast of Portales, NM. April 28, 2021 Pre-Mapping field review.

- The field trip was conducted for verification of wetland features and non-wetland features so that a "selective key' of image signatures could be amended and tailored to the Eastern Plains project area. This baseline information serves as a guide for identifying and classifying features (as interpreted from the project imagery) within the National Wetland Inventory (NWI), the Riparian Classification System, NWI Plus (LLWW -Landscape Position, Landform, Water Flow Path, and Waterbody), and HGM Classification Systems.

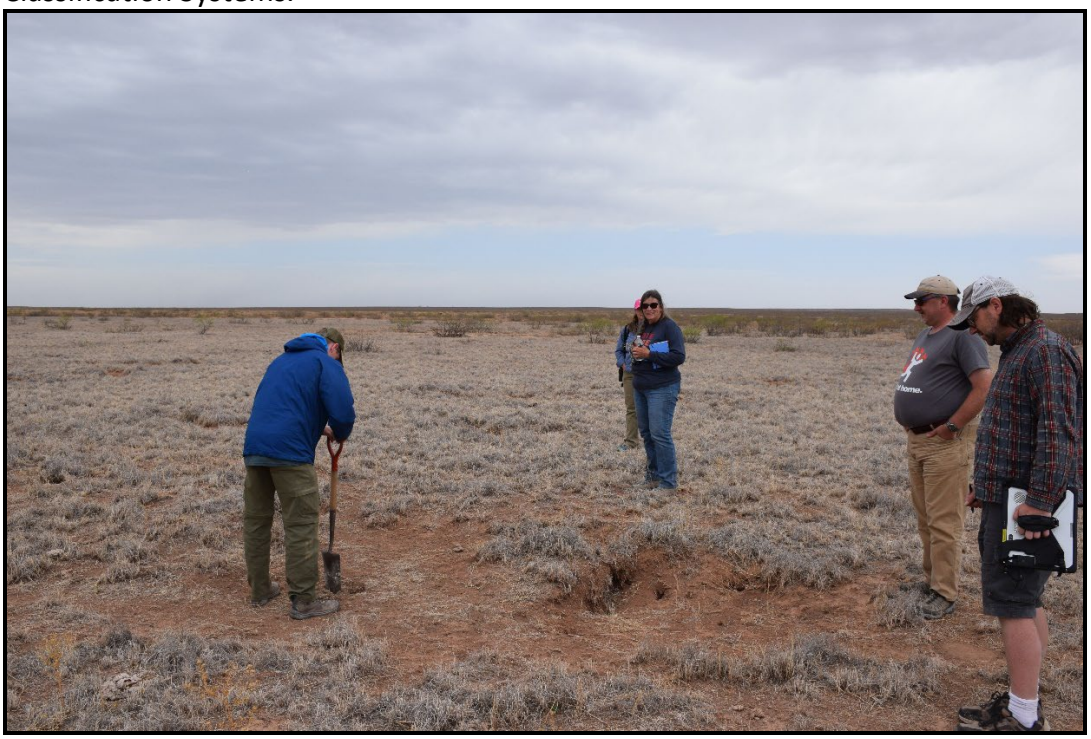


Figure 9. Pre-mapping Field Team members check soils for hydric indicators at Pre-mapping Field Review April 27, 2021.

- A total of 111 check sites were pre-selected for the Eastern plains and during the trip 47 field points were visited in the Eastern Plains area and were documented with photographs, map delineations and observation notes, wetland plant identification, surface hydrology indicators, wetland soils indicators and hydrologic regimes.

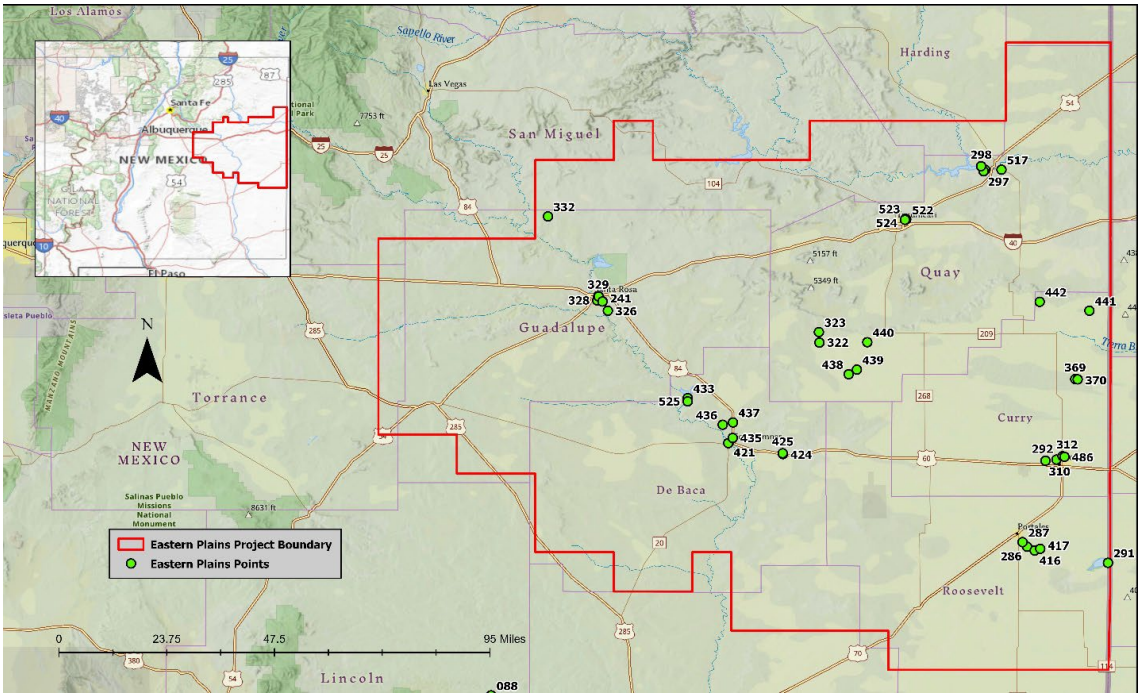


Figure 10. Check site locations in the Eastern Plains project area visited between April 27, 2021 and May 1, 2021.



Figure 11. Playa Check site #440. This emergent depressional wetland (playa) is characterized by emergent vegetation (light red signature) and basin shape (103.8173201°W 34.7942404°N). A pit excavation captures and alters flow. The presence of a pit was indicative of the playa holding more water throughout the year within the pit but contributing to drying of the historical playa bottom along with the encroachment of upland species.

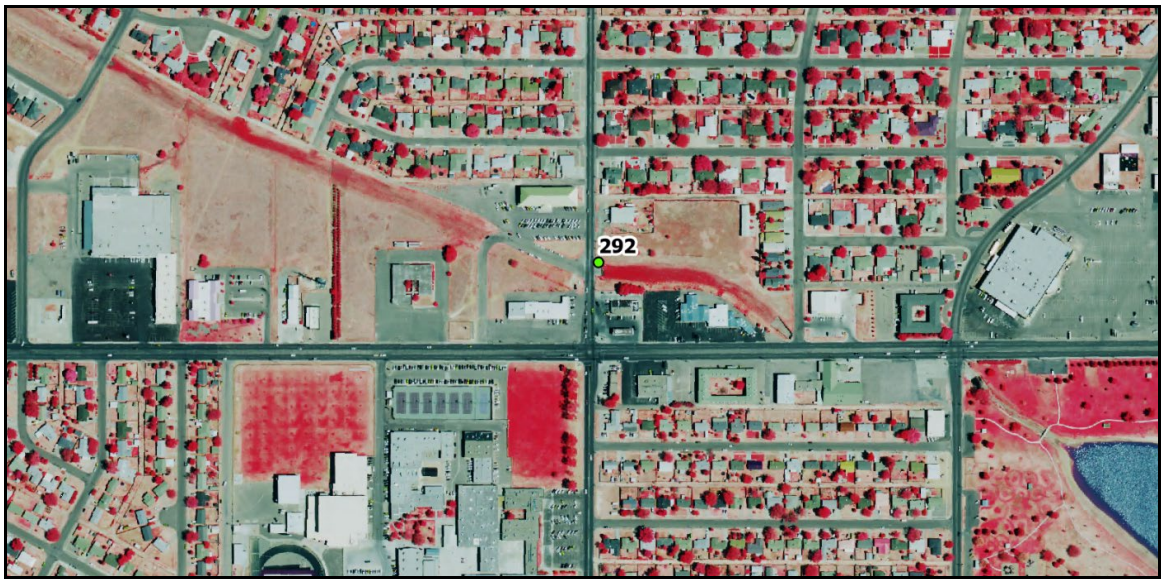


Figure 12. The City of Clovis has playas within the city limits and also ditches with saturated bottoms. Note red ditch at Checkpoint #292. Clovis is very flat and the ditches carry stormwater away from homes and infrastructure. (103.2140620°W 34.4201793°N)

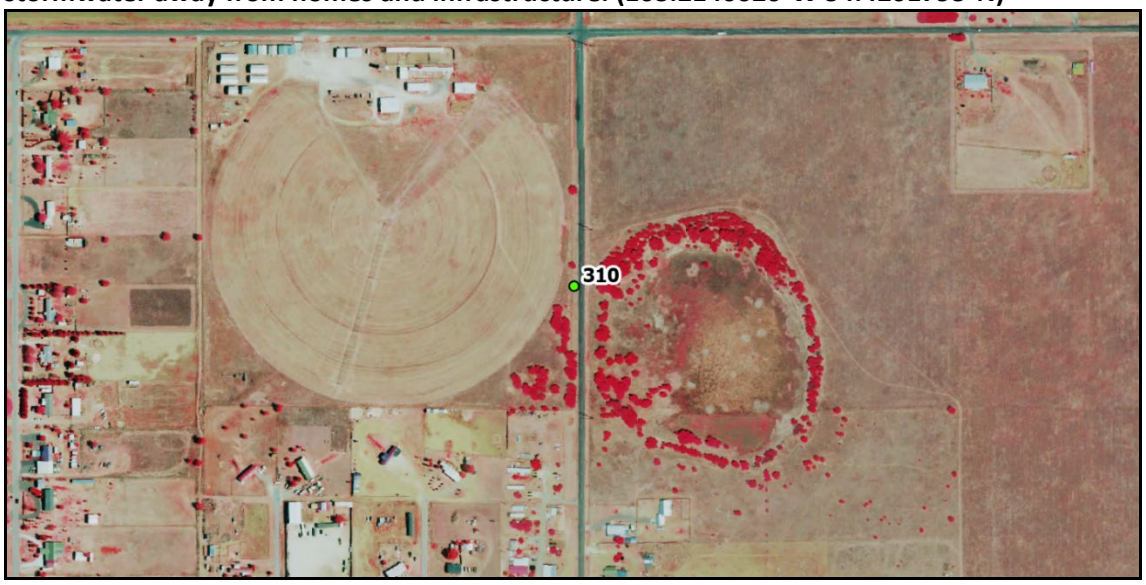


Figure 13. Checksite #310. Altered playa on the right of the road may be partially wetted from center pivot field runoff as indicated by the trees on the southeast corner of the field. On the south end of the playa is smooth, uniform pink vegetation, which is a very deep excavation that captures much of the water that would flood the rest of the playa area. (103.2493769°W 34.4167486°N)

- A Field Trip Report was prepared by GSS for the Eastern Plains Portion of the Pre-mapping Field Review.
- The WPO and WPC are communicating with GSS staff and NWI staff regularly to work out the changes required for including NWI Version 2.0 updates.

- The WPO and WPC continue discussions on the NM state-wide Wetlands Story Map.
- A Request for Quotes to complete remaining tasks when the current contract (18-667-2070-0018) with GSS expires on June 30, 2022, has been developed by Dustin Nelson (Watershed Protection Section Project Officer) who is helping with Wetlands Program tasks.
- A Draft Map Review field trip for this project was conducted in October 13 – 21, 2021 to review completed mapping codes and signatures, and to assess completed mapping data for errors of omission and commission, and to review how required mapping data will be added for NWI 2.0.
- Twenty-seven field points were visited in the Eastern Plains project area during the Draft Map review and were documented with photographs, map delineations, vegetation, soils, and hydrology indicators.

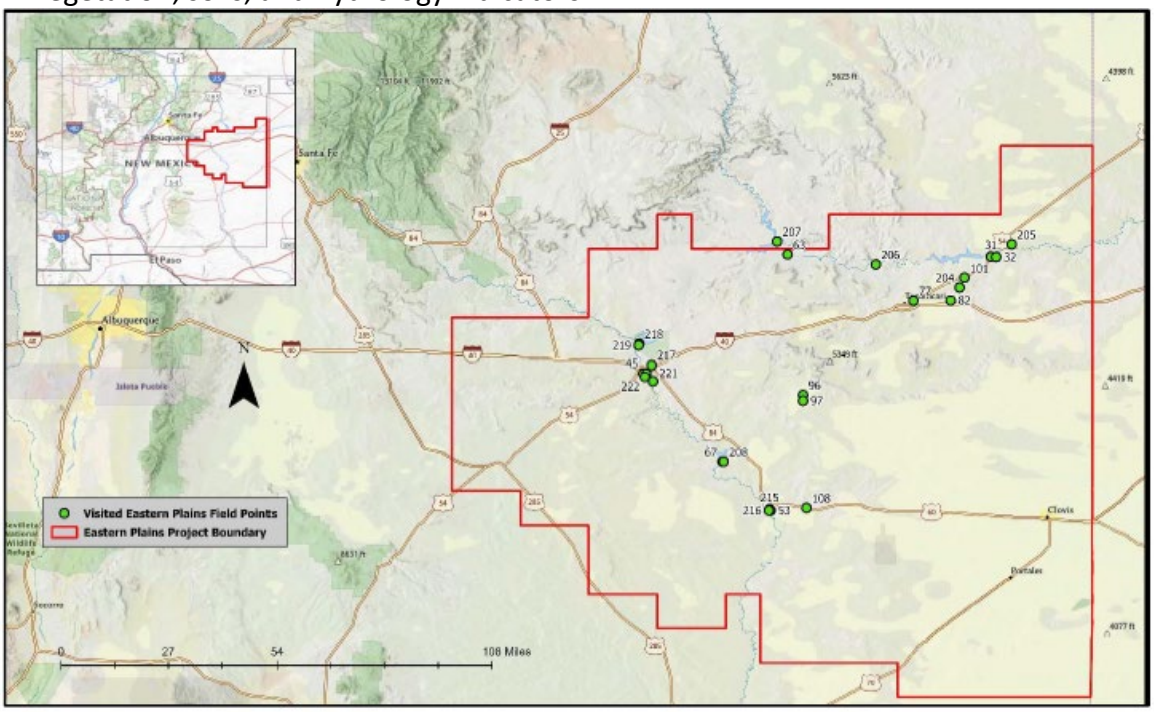


Figure 14. Locations of check-sites that were visited from the Eastern Plains study area during field verification. 1:1,300,000. The Eastern Plains study area is outlined in red.

- The field-verification process involved three stages: check-site selection; in-field examination and discussion and, post-trip documentation. Check-sites were selected in advance for areas that could not be clearly identified as upland or wetland or classified accurately on the imagery.
- GSS submitted a field verification Field Trip Report documenting the post-mapping field trip activities and mapping conclusions.



Figure 15. Check site #82 east of Tucumcari. Water was originating from a main irrigation channel flowing from the Ute Reservoir to the north. The channel either intentionally or otherwise is causing a certain degree of saturation intermittently further down the watershed.

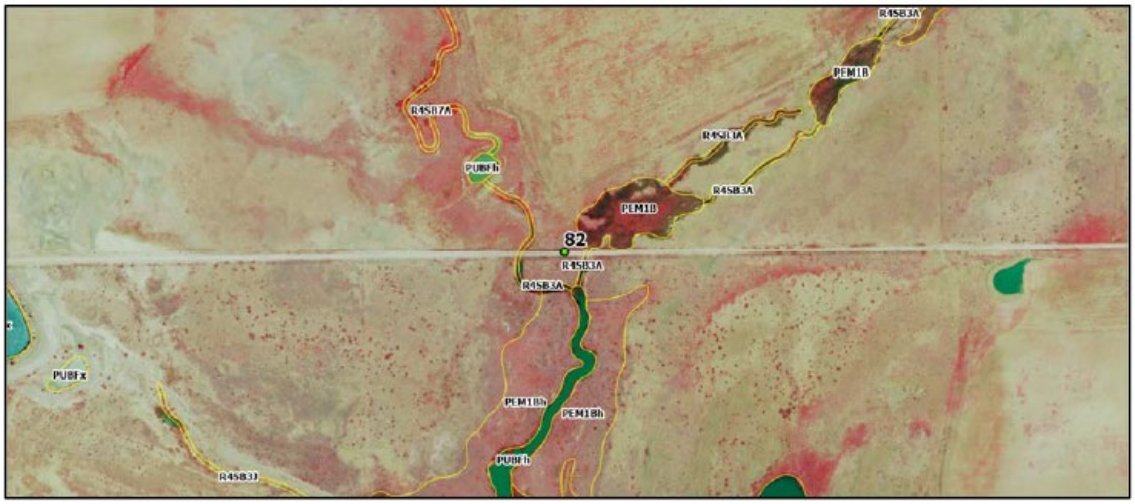


Figure 16. Check site #82. Pink signature is consistent across saturated flow path flowing north to south. PEM1B (Palustrine, Emergent, Persistent, Seasonally Saturated).



Figure 17. Check site #45. Permanently saturated meadow with hillside groundwater source, likely due to the karst geology of the area. These areas have permanently saturated hydric soils and are often associated with springs, seeps, or cienegas.



Figure 18. Check site #45. Semi-smooth, reddish brown emergent vegetation signature breaking out in areas with more dense saturation. Dark signature and light, smooth signature both indications for wetland vegetation. PEM1D (Palustrine, Emergent, Persistent, Permanently Saturated).



Figure 19. Check site #108. This vegetated playa holds water for long periods after precipitation events. NWI classification requires that wetland depressional features greater than 80 acres are mapped as lacustrine features. This playa is mapped as L2US5A ((Lacustrine, Littoral, Unconsolidated Shore, Vegetated, Temporarily Flooded).

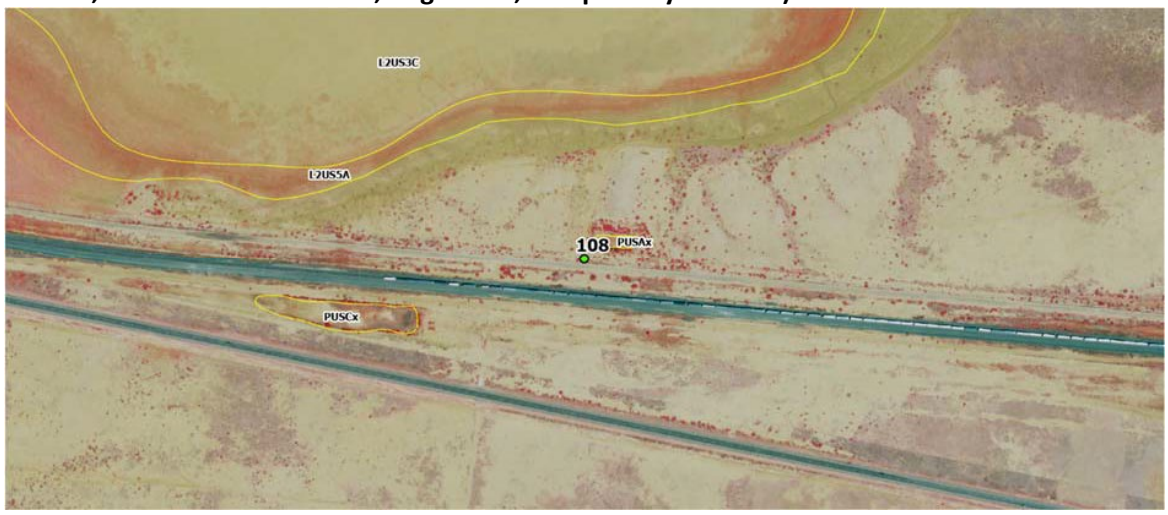


Figure 20. Check site #108. Sheet flow and precipitation flood this large playa. (108°54'16"W 32°16'34"N)

- A series of virtual Technical Advisory Committee (TAC) meeting workshops were conducted on February 24, 2022 and March 2, 2022 with 50 participants at the first workshop and 38 participants at the second workshop.



Figure 21. Intro slide for the Technical Advisory Committee Meeting.

- In these TAC 2-3-hour sessions, participants were provided with an overview of the 4 mapping and classification systems used to map wetlands in New Mexico, a review of unique wetland types specific to each project area, how mapping products can be used. The meetings concluded with a discussion of potential applications with the participants.
- The TAC meetings were recorded and the presentation links are listed below.

Link	Recording Access Password
Bootheel-Permian and Eastern Plains Mapping and Classification TAC meeting & training-20220224 1959-1	mFtKuwH3
Bootheel Mapping and Classification TAC meeting & training-20220302 1715-1	wJWJgtf7

- NMED staff completed a revision and updating of the QAPP which was submitted to EPA by the SWQB QA Officer, Miguel Montoya on March 2, 2022.
- The QAPP was approved by EPA on March 14, 2022, with the new QTRAK #22-128.
- A Request for Quotes to complete remaining tasks when the current contract

(18-667-2070-0018) with GSS expired on June 30, 2022, was completed.

- St. Mary's University of Minnesota Geospatial Services (GSS) was selected for a Contract 23-667-2060-0001 to complete final mapping tasks, the statewide Story Map, and a final report for this project.
- Full production mapping was completed by April 30, 2022 and a draft delivery of the project to both NMED and USFWS was made on May 02, 2022.
- Draft data review was completed by the Wetlands Program who submitted the draft data to US Fish and Wildlife Service National Wetlands Inventory (NWI) Gary Hunt in June, 2022. However, the submission to NWI has not yet been reviewed.
- GSS analysts began adding LLWW attributes in preparation for assigning HGM codes and functional attributes to the completed wetlands mapping.
- Dustin Nelson was hired into the Wetlands Program in February 2023 and is now the Wetlands Program Project Officer (WPO) for this project.
- WPO and WPC provided additional information on groundwater recharge in the project area to St. Mary's University of Minnesota Geospatial Services (GSS) to continue mapping wetland functions.
- Work on the NM Statewide Wetlands Story Map by Wetlands Program staff and GSS staff continues. A draft version of the Story Map was available for review.
- WPO and Tiffany Anders (NMED Wetlands Staff) attended Geomorphic Processes of Natural Stream Channels in the Arid Southwest training , held in Flagstaff, AZ on April 25 – 28, 2023.
- NMED staff, including WPO and WPC attended a wetlands mapping and classification field training with Andy Robertson of Saint Mary's University of Minnesota Geospatial Services (GSS), Gary Hunt, U.S. Fish and Wildlife Service Regional NWI Coordinator (USFWS), and Karen Menetrey, volunteer, June 12 through June 15, 2023. The group visited 27 sites to familiarize new Wetlands Program staff, including the WPO for this project, with the Mapping and Classification process. GSS provided NMED staff with digital mapping layers and hard copy maps/data sheets for wetland classification validation practice. Dustin Nelson's and Codie Vileno's per diem for this field trip was charged to this grant.
- A no-cost extension for the project was approved by the EPA on August 29, 2023 to extend the end date of this project to December 31, 2024.
- NM Statewide Wetland Story Map was completed by St. Mary's University of Minnesota Geospatial Services (GSS) on August 31, 2023, with input from WPO and WPC. The final version of the Story Map is available at this location: https://storymaps.arcgis.com/stories/81df9f1c7b47467895377e9772964d07
- The WPO and WPC completed a list of geology units and their recharge potential for mapping the groundwater recharge function in April 2023. With the submission, GSS completed adding the functional attributes to the database in August 2023.
- The final wetland mapping geodatabase for the project was delivered to NMED by the contractor on August 23, 2023.

- All deliverables have been submitted by the Contractor, GSS on August 23, 2023, including supplemental map information and the final report.
- A wetlands naming application was run by NMED GIS IT specialist Phil Polzer to apply unique wetlands IDs to all wetlands in the project area. These Wetland IDs can then be used to identify future wetlands assessment units (AUs).
- The WPC met with Natural Channel Design Engineering (NCDE) staff and Angel Montoya (USFWS Partners for Wildlife Program) to develop a plan and contract tasks for outreach for Eastern Plains playas.
- The WPC met with staff from NCDE via Teams on December 5, 2023, to discuss a workshop and outreach materials as a follow-up for the virtual training and including the demonstration restoration Keystone Restoration Ecology conducted at the Grasslans Charitable Foundation playa.
- In early 2024, the WPC discussed partnering options for the workshop with Angel Montoya (USFWS Partners for Wildlife Program). The Partners Program agreed to pay for Keysone Restoration Ecology to demonstrate the on-the-Ground restoration while building additional restoration structures at the Grasslans Playa, and the WPO agreed to pay NCDE for conducting the classroom portion of the workshop and to help with the walkthrough of the completed structures. NCDE also investigated demonstrating drone monitoring and videotaping the workshop for future use. The video idea was replaced with a Story Map due to costs associated with videotaping.
- On January 16, 2024, Dustin Nelson attended a coordination meeting with the US Army Corps of Engineers as match for this project.
- On March 14, 2024, the Wetlands Program Coordinator requested EPA Region 6 to move $32,109.00 from personnel to contractual to hire a contractor to assist with outreach for this project since the Wetlands Program was understaffed. The request was approved by EPA on March 27, 2024.
- The final NWI data was uploaded into the NWI database in May of 2024.
- A wetlands naming application was run by NMED GIS IT specialist Phil Polzer to apply unique wetlands IDs to all wetlands in the project area. These Wetland IDs can then be used to identify future wetlands assessment units (AUs).
- In July, Shinya Burck, Wetlands Program Project Officer, obtained a printing quote for a 50 copies of the Playa Erosion Control Technical Guide to be handed out at the Playa Restoration and Monitoring Workshop.
- On August 16, a contract with Natural Channel Design Engineering (NCDE) to conduct a Playa Workshop on the Weaver Ranch and to create a Story Map was approved.
- On August 27, partners including NCDE, Keystone Restoration Ecology, US Fish and Wildlife Service Partners for Fish and Wildlife, Grasslans Foundation and Weaver Ranch planned for the Workshop to take place on the Weaver Ranch on October 28-29, 2024.
- Invitations were sent to potential Playa Monitoring and Restoration Workshop participants including to Colorado and Texas on October 4, 2024.



Figure 22. Playa Gully on the Grasslans Playa example sent with invitation to the Workshop.



Figure 23. Grasslans Playa Gully restored example sent with invitation to the Workshop.

- The Playa Workshop was conducted on October 28 and 29 at the Weaver Ranch near Causey, NM with 14 attendees. The Weaver Ranch provided a barn for the classroom portion of the Workshop where a power point on monitoring playas and drone

monitoring was given by NCDE Engineers. NCDE also handed out thumb drives with the powerpoint and other materials to attendees.

- On October 29, Workshop attendees met at the Grasslans Foundation Playa where NCDE staff led a field trip to areas already restored on the grasslans playa. After lunch, the group watched Keystone Restoration Ecology Steve Vrooman use heavy equipment to build restoration structures on gullies entering the playa.



Figure 24. Classroom portion of the Playa Monitoring and Restoration Workshop at the Weaver Ranch near Causey, NM.

IMG_8407.MOV

Movie of equipment restoration and drone monitoring. (Tap to play)

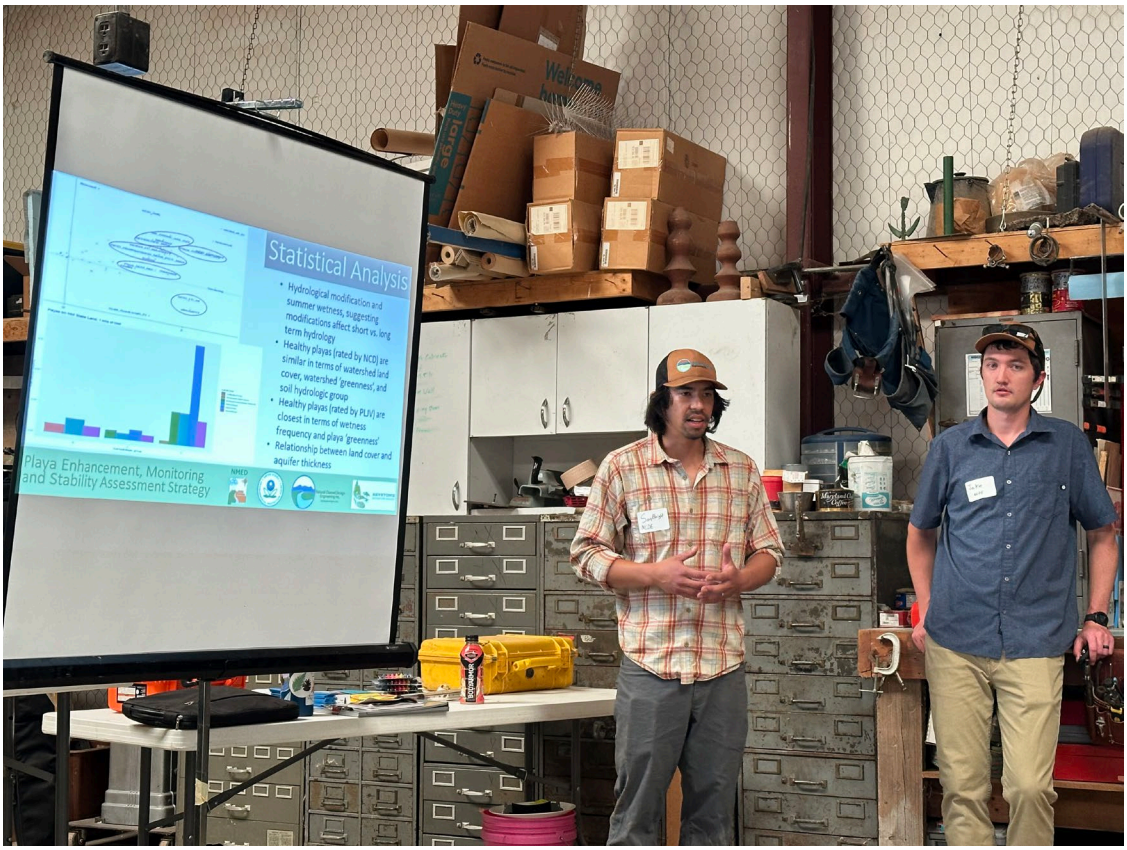


Figure 25. Sam Ebright and Jacob Fleishman (NCDE) give presentation about statistical analyses that they conducted on 20+ playas in the Southern High Plains. Mapping from this project helped them identify playas for the statistical analyses. The also talked about pre- and post-monitoring techniques and software for playa analyses for successful restoration.



Figure 26. Steve Vrooman (Arrow) providing agenda to the attendees for the field day at the Grasslans Playa.



Figure 27. Workshop Attendees look at successful restoration where significant plant growth stabilizes gullies where shear stress is reduced.



Figure 28. Workshop attendees participate in measuring slopes and watching equipment work during second part of field day.

- On December 19, 2024, NCDE submitted the final version of the Story Map, Playa Enhancement, Monitoring and Stability Project." the Story Map can be accessed here: https://storymaps.arcgis.com/stories/a1e6612037a04c9e9eaf3866efcc10d8
- Work was completed on the NCDE contract on December 23, 2024.
- A wetlands naming application was run by NMED GIS IT specialist Phil Polzer to apply unique wetlands IDs to all wetlands in the project area. These Wetland IDs can then be used to identify future wetlands assessment units (AUs).
- A Final Deliverable is the Story map "Playa Enhancement, Monitoring and Stability Project "https://storymaps.arcgis.com/stories/a1e6612037a04c9e9eaf3866efcc10d8

List of Major Deliverables

- Geodatabase assembled
- Cowardin, Riparian, LLWW and HGM classified maps
- GSS Contractor Quarterly Reports
- Pre-mapping and post-mapping field Trip Summary Reports
- Technical Advisory Committee meeting recordings and list of attendees

- Geology Units and Groundwater function Ratings for the Eastern Plains Project
- Statewide Wetlands Story Map
- Mapping published on SWQB Wetlands Mapper
- Playa Enhancement, Monitoring and Stability Story Map
- Playa Workshop handouts and thumb drive, workshop photos
- Contracts and amendments
- QAPPs and updated QAPP
- Contractor final mapping report
- Semi-Annual Reports and Final Report, Match reporting to EPA

Lessons Learned

During this project, the Wetlands Program experienced delays due to Covid and turnover in Wetlands Project Officers. Extensive training including mapping and classification week-long training helped keep the project on task.

Getting contractor help when the SWQB Wetlands Program was understaffed also helped complete project outreach.

The Technical Advisory Committee proved invaluable for local knowledge. When attempting to adapt mapping methodologies based on regional and local conditions, it is essential to involve local, regional, and national experts plus local stakeholders in the mapping and assessment processes.

It is important to incorporate both field evaluations (qualitative and quantitative) and collateral spatial data sources to support decisions related to wetland delineation, water regimes, classification, and function. In semi-arid environments such as eastern New Mexico, which can experience severe to extreme drought conditions, or continuous precipitation during the monsoon season, a single site visit may influence water regime decisions especially during times of prolonged or severe drought.

What made the project successful?

The Wetlands Mapping and Classification Workshops were an offshoot of the success of virtual Technical Advisory Committee meetings reaching so many more participants. The invitation to a Wetlands Mapping and Classification Workshop was open to a broader range of participants, which in turn had many more participants attend the workshop. However, the Playa Restoration Workshop was conducted in-person and proved invaluable to have practitioners on site. An important outcome of this project was to use mapping information to find wetlands in need of restoration, in this case for playas. This was a key goal of the SWQB Wetlands Program.

What made the project not so successful?

This project has been overall successful in achieving its goals, even after delays and restrictions due to the Covid pandemic.

Technical Transfer

What information can you pass along to other agencies, cooperators, or local landowners in other watersheds about this project?

Two Technical Advisory Committee meetings were conducted as workshops, that attracted a broad audience interested in wetland mapping. These workshops were recorded and can be sued for additional outreach to those not in attendance. Mapping products were distributed to Agencies and organizations on request. Wetlands Program personnel attended the NM Geospatial Advisory Committee monthly meeting to share resources and stay abreast of mapping activities. Two Story Maps were completed and are available on the NMED Wetlands Program website. Mapping is available to the public on the NWI Mapper Wetlands Mapper | U.S. Fish & Wildlife Service (fws.gov) and on the NMED Wetlands Program website OpenEnviroMap (nm.gov). This final report will also be available on the NMED Wetlands Program website.

EPA Feedback Loop

What would you suggest that EPA do differently to improve the process in regard to this project?

EPA was very supportive in all aspects of this project during the project period, especially allowing grant period extensions to complete high quality and meaningful work during times of uncertainty and change.

Future Activity Recommendations

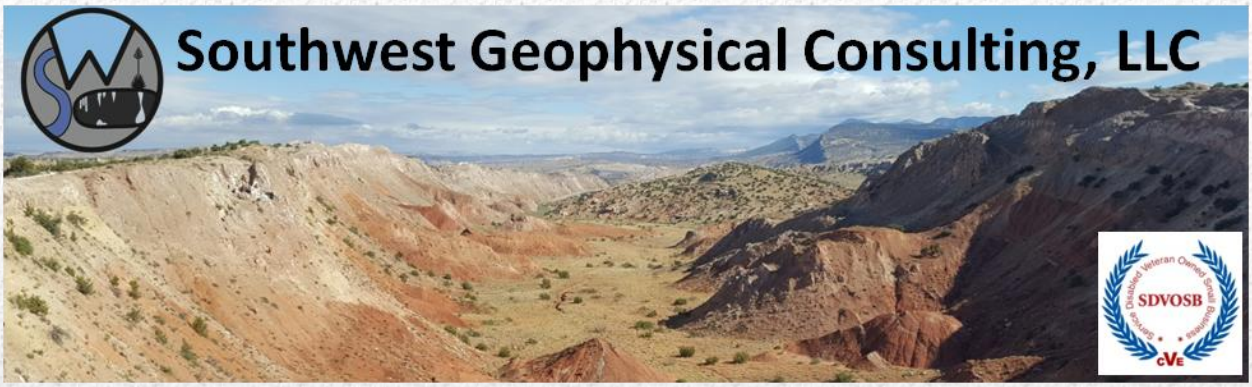
The NMED Wetlands Program will continue to share project results through presentations, wetland roundtables, the Story Maps, and on the NWI website. Mapping of HGM subclasses will continue to be used to develop the New Mexico Rapid Assessment Methods by subclass. The Story Maps will be used for education and outreach about New Mexico's wetlands, providing a tool to help people visit and appreciate wetlands, as well as understand the ways that they are classified and the meaning of the classifications. Now that New Mexico mapping is nearly complete, transfer of these mapping products for a variety of uses to stakeholders will be a priority.

As wetland mapping is nearly completed for New Mexico, the Wetlands Program should devise a methodology to identify and record trends, especially in southern New Mexico which experiences drought conditions, and use mapping products to locate wetlands with unique and special features for further protection.

APPENDIX C

Environmental Karst Study Report

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Environmental Karst Study Report
East Pecos Gathering 3
Eddy County, New Mexico

Prepared For:

eTech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

☐ **Positive within 200 feet of spill delineation boundary**

☑ **Negative within 200 feet of spill delineation boundary**

☑ **Stable** ☐ **Unstable Ground**

☐ **Karst Monitor Recommended**

April 7, 2025

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1.0 INTRODUCTION

This report was commissioned by eTech Environmental and Safety Solutions, Inc. (hereinafter referred to as "the client"), on January 24, 2025, for the purpose of conducting an environmental karst study within an area encompassing the East Pecos Gathering 3 release site (hereinafter termed “EPG3”) centered at N 32.004243° W 103.956669°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC[1]) and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions[2]) within the spill delineation boundary of the EPG3 release using electrical resistivity imaging[3].

1.2 Summary of Findings

- **No surface karst features exist within the 200-foot (61-meter) perimeter of the spill delineation boundary.**
- One surface karst feature exists within the 200-meter surface karst survey boundary, but outside the 200-foot (61-meter) boundary.
- **No anomalies consistent with subsurface air- or water-filled voids were found within the EPG3 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Flat-lying stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**

1.3 Affected Environment

The EPG3 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)[5] (**Figure 1**).

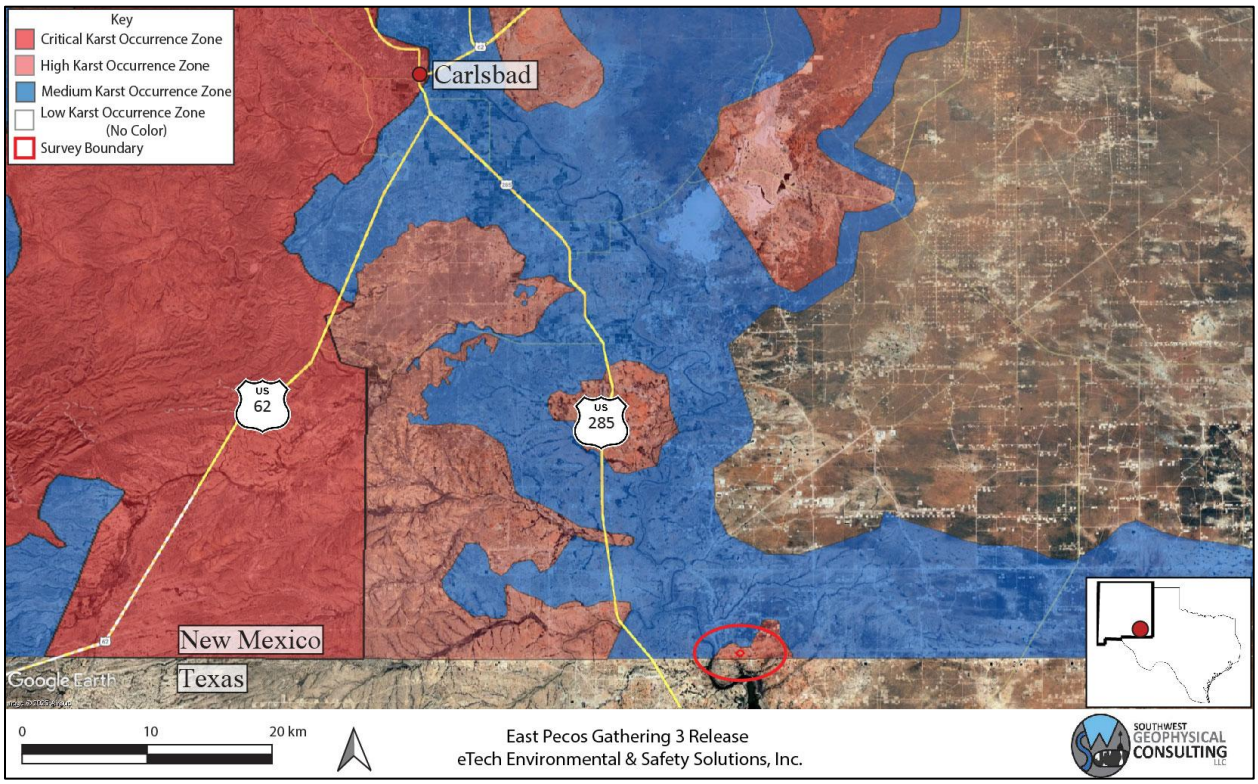


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: August 21, 2024. Image datum: WGS-84.

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat[4].

Due to the rapidity with which evaporite karst develops, each location within a CKOZ or HKOZ must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of eTech Environmental & Safety Solutions, Inc., in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the dates of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 52.6 kilometers (32.7 miles) south-southeast of Carlsbad, New Mexico, south of Stateline Road, north of the New Mexico – Texas border, and east of the Pecos River in an area known as Red Bluffs. The study area is located within section 35 of NM T26S R29E[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock[7] (see section ***2.2 Local Geology Summary*** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ[5] (**Figure 1**) and within BLM-CFO managed land[10] (**Figure 2**).

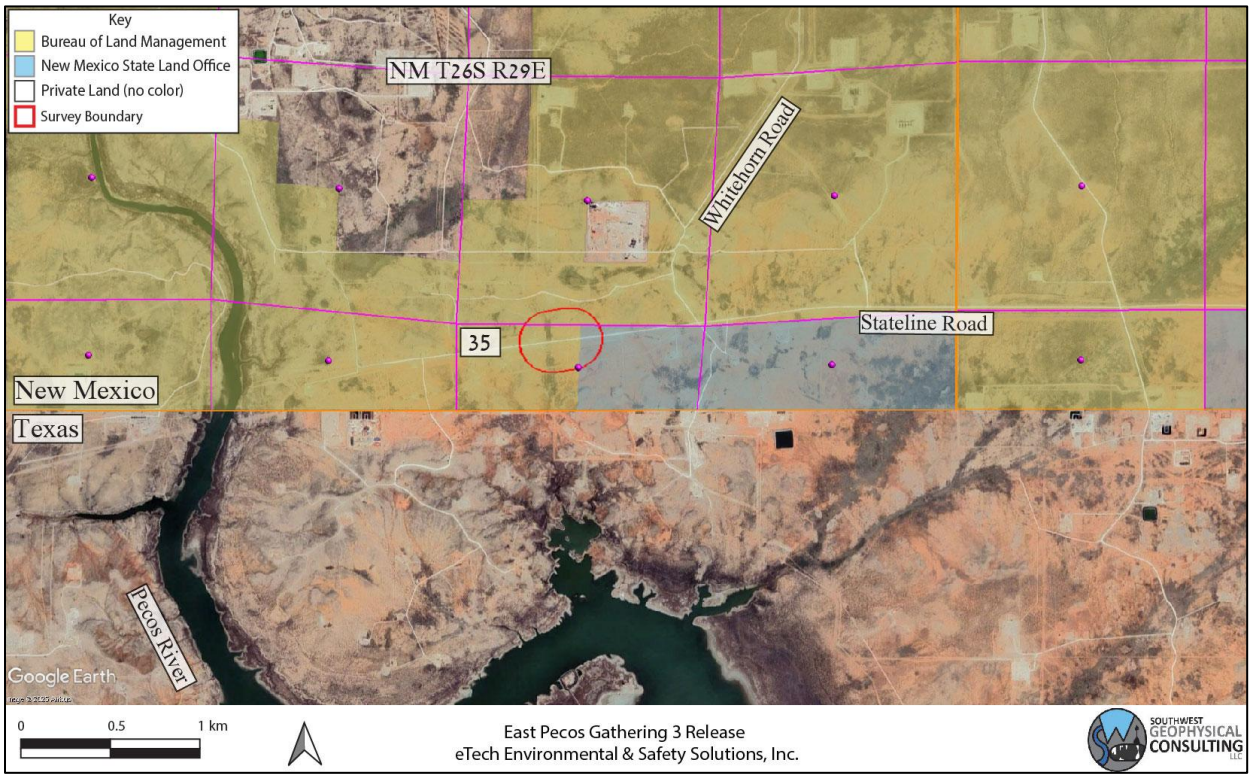


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the EPG3 survey is located at an elevation of 876 meters (2,874 feet), ± 4 meters (13.1 feet), and is located within a region entirely underlain by the Permian Dewey Lake (Pdl) and Rustler (Pru) Formations. The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvium (Qal) and eolian sands (Qe)[11] up to 5 meters in depth (**Figure 3**).

The Dewey Lake Formation is composed of calcite-cemented, hematite-stained quartz sand grains[12] and occasional gypsum lenses and can, in favorable conditions, form cavernous porosity within 30 meters of the top of the Rustler Fromation[13]. The Dewey Lake Formation is also known to be highly fractured near areas of heavy halite dissolution such as Nash Draw (approximately 30 kilometers north), and these fractures can act as hydrologic conduits.

The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum[12], and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members). The Forty-niner and Tamarisk members are known to have highly developed karst features including large voids and solution-enlarged fractures[14].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale[15] and the Digital Geologic Map of New Mexico in ARC/INFO Format[11].

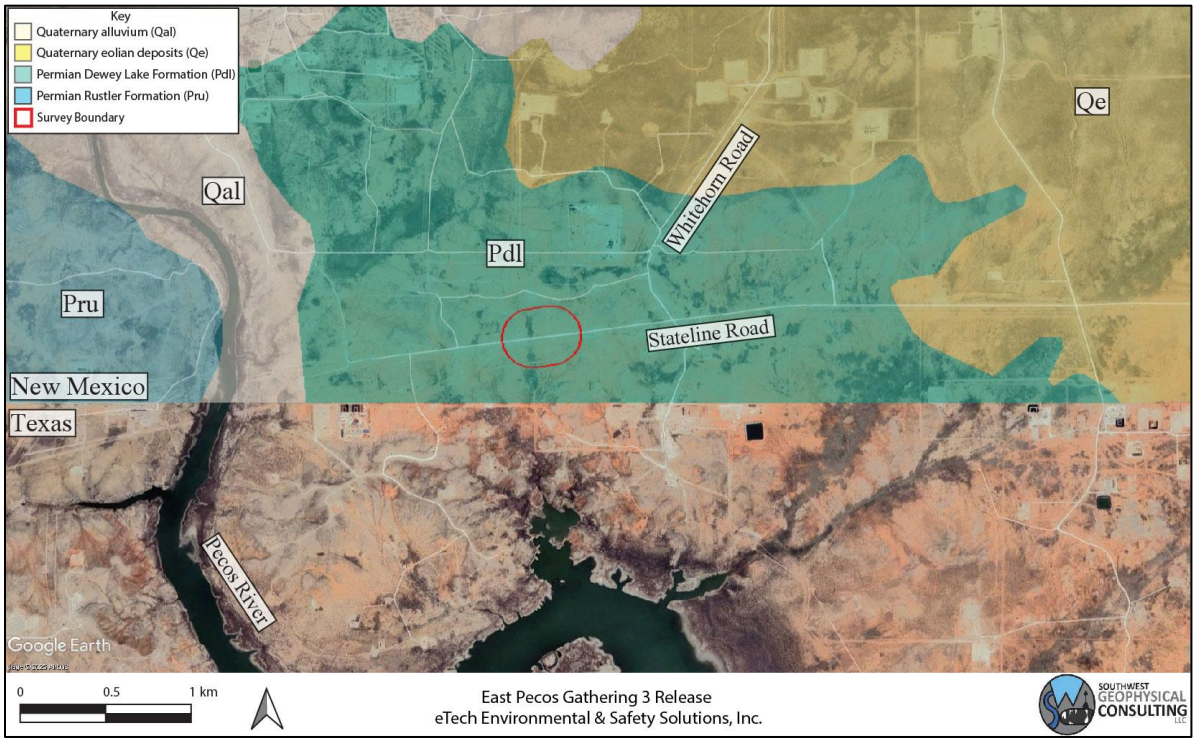


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The aerial karst survey includes a surface karst desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated March 20, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated March 3, 2025[16]; the Ross Ranch, NM, 1:24,000 quad, 1968, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

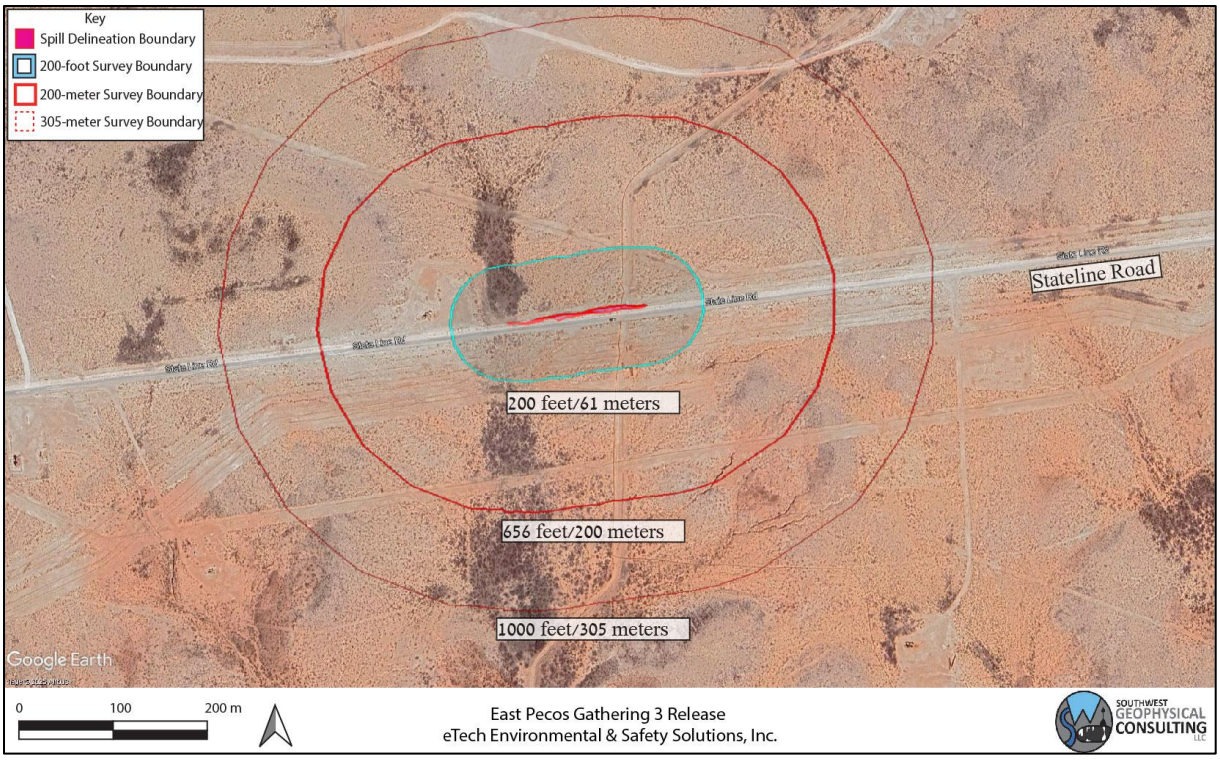


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: March 20, 2023. Datum: WGS-84.

Aerial karst surveys are conducted at low elevation within 200 meters of the spill delineation boundary[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report[17].

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on February 13, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Kat Knight of Southwest Geophysical Consulting on February 25, 2025.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 42-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two orthogonal resistivity lines in a dipole-dipole configuration laid out west to east. Both lines consisted of 42 electrodes at 5-meter spacing, resulting in 205-meter-long arrays (**Figure 5**, **Table 1**). A preconfigured command file was used to run the data collection (DiDi42). This electrode configuration provided a depth of investigation of 41 meters (135 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

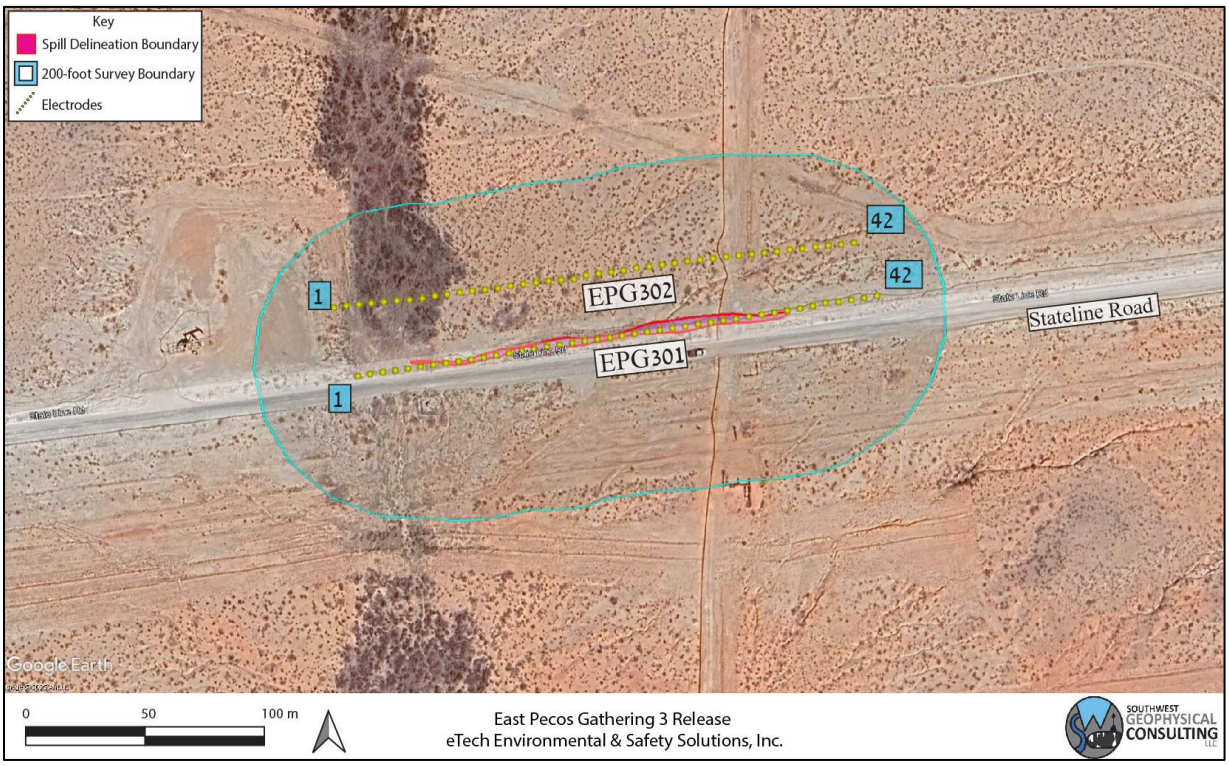


Figure 5: Geophysical survey overview. Two survey lines were conducted with 42 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information for each line including electrode number, location in latitude/ longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files EPG3 _ERI_Points.xlsx and ETEC-011-202510124_EPG3_Data_Files.kmz.

File Name:	Completed By:	Date:
EPG301.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Kat Knight – Field Geologist	03/27/2025
EPG302.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Kat Knight on March 27, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within the 200-foot (61-meter)[1] karst survey boundary.

One recognized surface karst feature is located within the 200-meter survey boundary, but outside of the 200-foot limit surrounding the spill delineation boundary (**Figure 6**, **Table 3**). Recognized surface karst features are features that are positively identified in either satellite or aerial imagery as karst features and the features have been visited by a qualified karst professional in the field and fully identified. Images for the features are available on request.

No springs exist within the 1,000-foot (305-meter)[1] survey boundary.

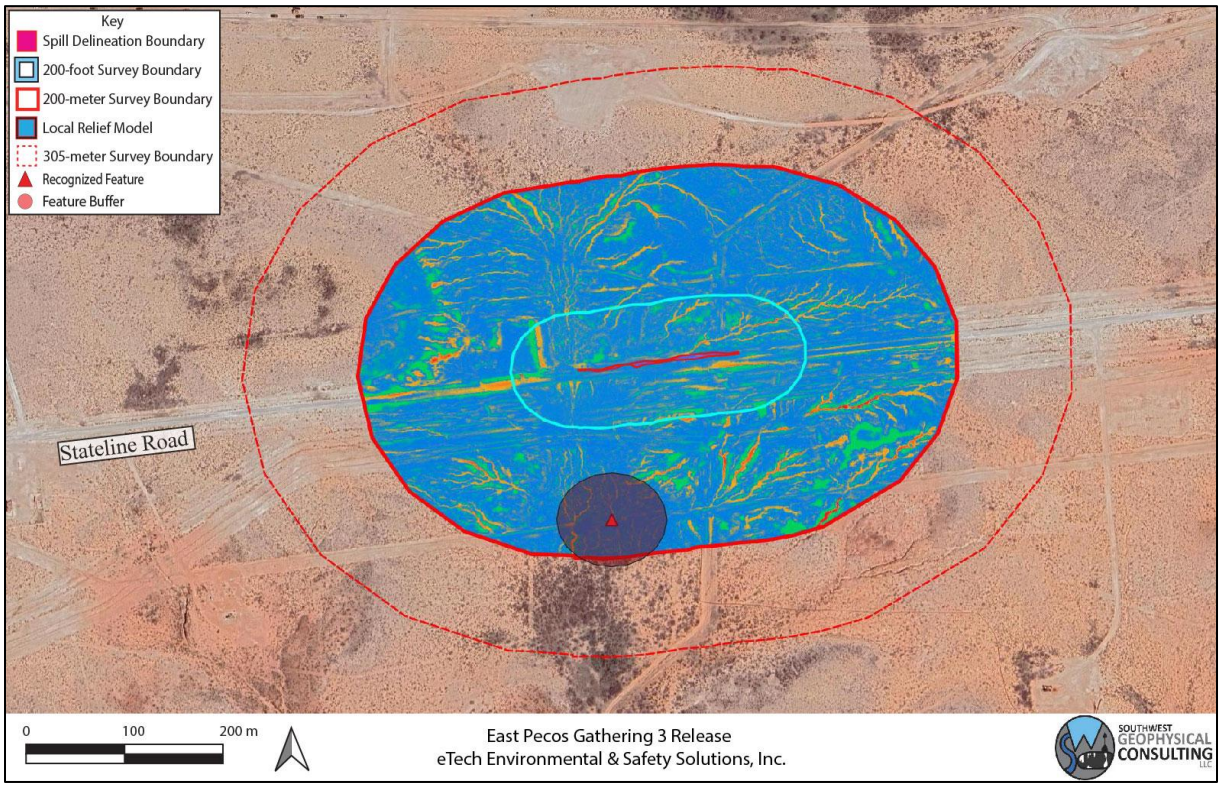


Figure 6: Aerial karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities should be considered.

Table 3 contains a list of features identified during the aerial karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 3: Surface Karst Feature Data Table

KF Status	Feature ID	Type	Size (m)	Buffer (m)	Modifier	Easting	Northing
RKF	250225-R14	Collapse feature	1.1	50	V	598500.683	3541211.979

NOTE: Location data provided in WGS-84/UTM 13N. RKF – recognized karst feature.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with resistivities between 1.1 and 547 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

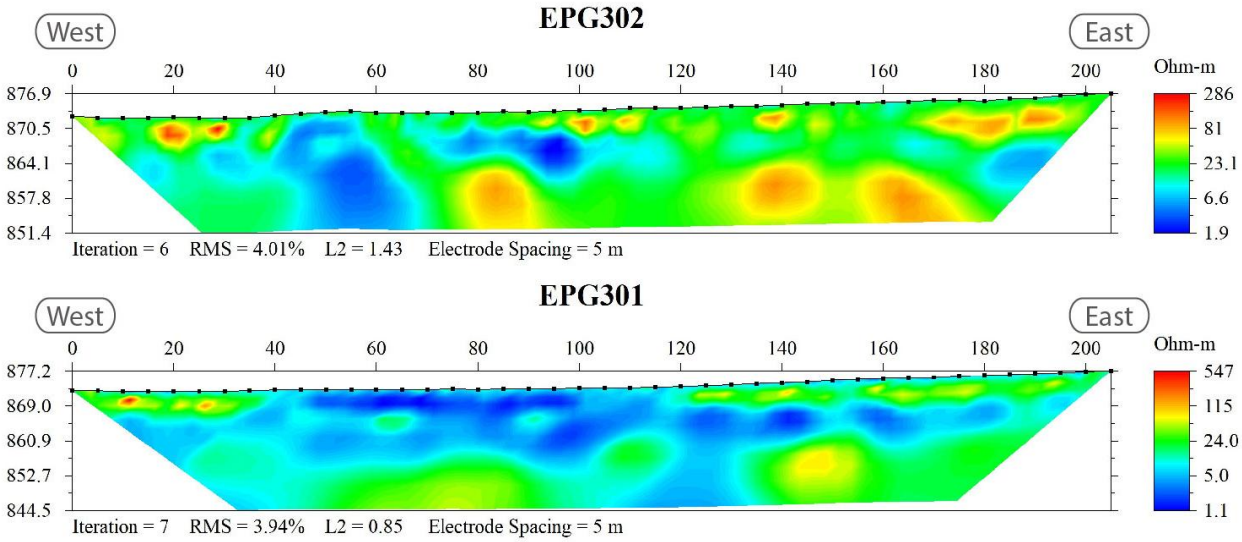


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

The desk study and surface karst survey results show one collapse feature along a pipeline trench. This feature could be associated with soil subsidence within the trench, but could also be due to soil raveling into a subsurface void. This feature is well outside of the 200-foot boundary around the spill delineation zone.

No anomalies consistent with air-filled subsurface voids are found within the EPG3 survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (1.5 – 2.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as sand, caliche, or gypsite soils. Due to their much lower resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as sand, caliche, or sandstone of the Dewey Lake Formation[18] (**Figure 7** and **Figure 8**).

Very low-resistivity areas between 1.1 – 5 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Dewey Lake or Rustler Formations. (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5 – 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

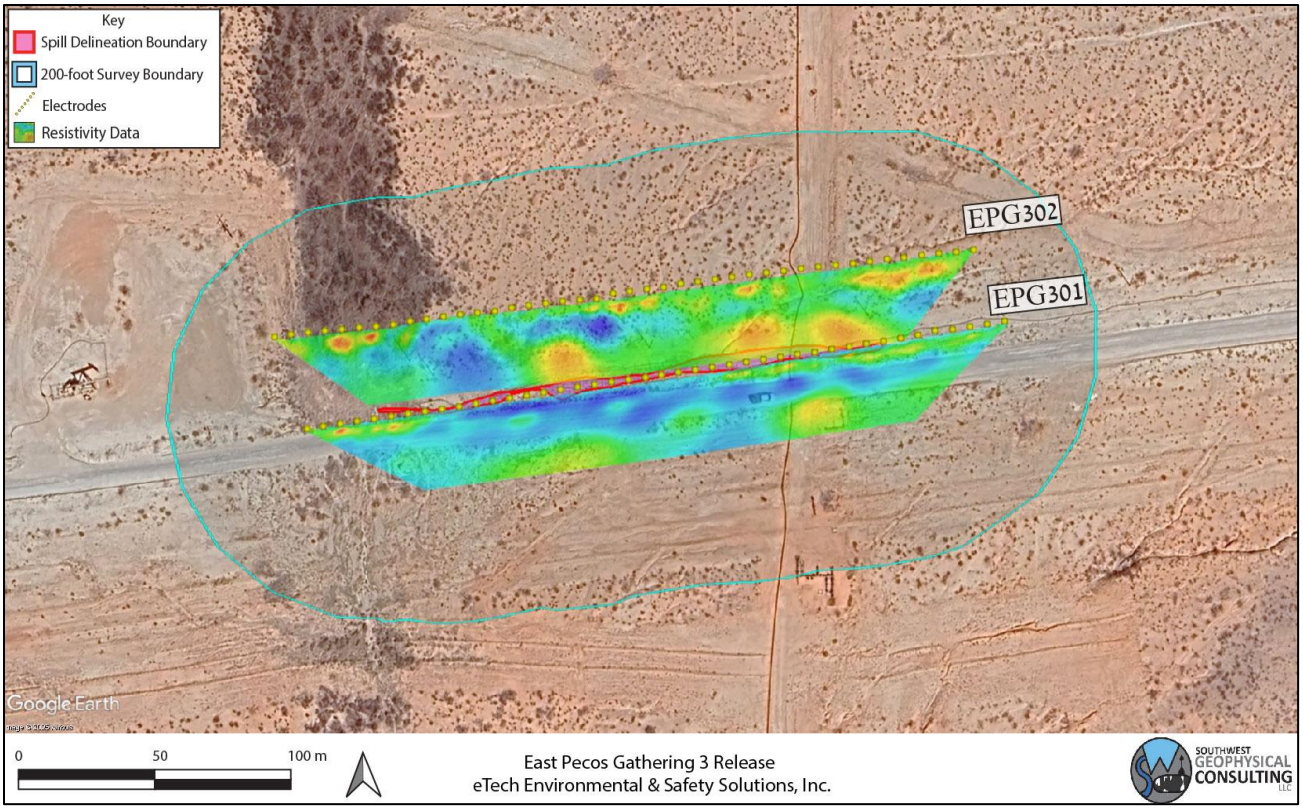


Figure 8: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: March 20, 2023.

5.0 SUMMARY

- **The EPG3 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- One recognized surface karst feature was located outside of the 200-foot boundary, but within the 200-meter survey boundary.
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

High karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports commissioned at the request of the land manager should be submitted to:

BLM-CFO: blm_nm_karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

7.0 REFERENCES

1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).

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12 Austin, G. S. *Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas*. Vol. Circular 159 (New Mexico Bureau of Mines and Mineral Resources, 1978).

13 Powers, D. W., Lambert, S. J., Shaffer, S.-E., Hill, L. R. & Weart, W. D. Geological Characterization Report, Waste Isolation Pilot Plant (WIPP) Site, Southeastern New Mexico. 726 (Sandia Laboratories, Albuquerque, NM, 1978).

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15 Scholle, P. A. Geologic Map of New Mexico. (2003).

16 Decker, D. D., Jorgensen, G. L. & Palmer, R. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2025).

17 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).

18 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω-m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed, "meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG
Chief Executive Officer, Principal Geologist
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
dave@swgeophys.com
(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-011-20250124 entitled, “Environmental Karst Study Report, East Pecos Gathering 3, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section ***2.3 Description of Survey***.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, April 10, 2025.

David D. Decker
PhD, CPG-12123



APPENDIX D

Referenced Well Records

GROUNDWATER SAMPLING FORM

DATE (MM/DD/YYYY):	08/25/2025
PROJECT NAME/PROJECT NUMBER:	JC Willams Well
SITE/WELL NAME OR NUMBER:	JC Williams Well GW Measurement
SITE/WELL COORDINATES:	32.0105289, -103.9534960
CLIENT:	WPX Energy Permian, LLC
SAMPLER NAME:	Edyte Yokoli
ACTIVITY:	Groundwater measurement

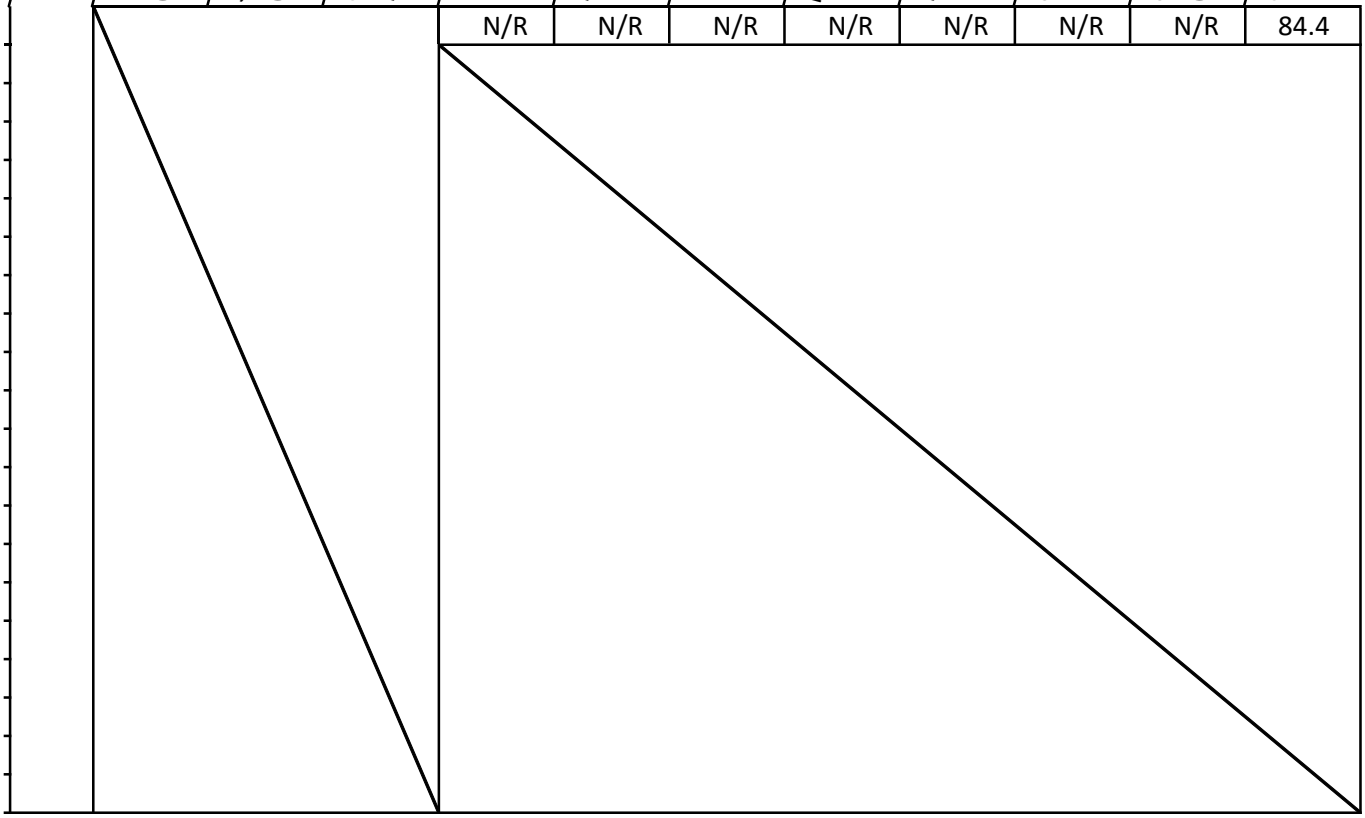
WELL INFORMATION

DEPTH TO GROUNDWATER (DTW):	*84.4'*	*SCREEN INTERVAL:*	*N/A*
TOTAL DEPTH OF WELL:	*151'*	*FIELD SCREENING EQUIPMENT:*	N/A
SAMPLE TUBING INTAKE DEPTH:	*N/A*	*EQUIPMENT CALIBRATION DATE AND METHOD:*	N/A

NOTES: FEET (FT), DEPTH BELOW GROUND SURFACE (BGS), GROUNDWATER (GW), MINUTE (MIN), LITER PER MINUTE (L/MIN), DEGREE (°) CELCIUS (C), DISSOLVED OXYGEN (DO), MILIGRAMS PER LITER (mg/L), OXIDATION-REDUCTION POTENTIAL (ORP), MILLIVOLT (MV), MICROSIEMENS PER CENTIMETER (µS/cm), NOT AVAILABLE (N/A), NOT RECORDED (N/R)

WELL PURGING/DEVELOPMENT

WELL DETAIL	TUBING PLACEMENT (FT BGS)	STATIC GW DEPTH (FT BGS)	GW DEPTH AFTER PURGE	TIME (MIN)	PURGE RATE (L/MIN)	TEMP (°C)	pH (UNITLESS)	DO (mg/L)	ORP (mV)	CONDUCTIVITY (µS/cm)	GW DEPTH (FT BGS)
				N/R	N/R	N/R	N/R	N/R	N/R	N/R	84.4



INITIALS: KyE

APPENDIX E

Soil Sampling Logs

eTECH	Sample Name: BH01	Date: 05/16/2024 & 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004154, -103.957647	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<124	0.5	No	BH01	0.5	0.5	SP-SM	(0-55') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	<124	0.7	No	BH01	1	1		
Dry	<124	0.4	No	BH01	2	2		@ 2' Some gravel (1-2mm), no organic.
								@4' Color Change from light brown to reddish brown.
Dry	<124	0.2	No	BH01	4	4		@0-4' Utilized hand auger.
								@4-55' Utilized sonic rig.
Dry	<116	0.0	No	BH01	6	6		
Dry	<116	0.8	No	BH01	8	8		
Dry	<116	0.0	No	BH01	10	10		
Dry	<116	0.0	No	BH01	12	12		@ 12.5' Some mottling.
Dry	<116	0.1	No	BH01	14	14		@ 14.5' Some mottling.
Dry	<116	0.2	No	BH01	16	16		@ 16' Color change to purple, decrease in silt.
Dry	<116	0.0	No	BH01	18	18		

eTECH	Sample Name: BH01	Date: 05/16/2024 & 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004154, -103.957647	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.1	No	BH01	20	20	SP-SM	(0-55') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor. @ 20' color change to reddish brown, trace reduction spots.
Dry	<116	0.1	No	BH01	22	22		@ 22.5' no reduction spots, increase in silt to abundant.
Dry	<116	0.1	No	BH01	24	24		
Dry	<116	0.0	No	BH01	26	26		
Dry	<116	0.0	No	BH01	28	28		
Dry	<116	0.0	No	BH01	30	30		
Dry	<116	0.1	No	BH01	32	32		
Dry	<116	0.2	No	BH01	34	34		@ 34.5' Some reduction spots.
Dry	<116	0.0	No	BH01	36	36		
Dry	<116	0.0	No	BH01	38	38		

eTECH	Sample Name: BH01	Date: 05/16/2024 & 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004154, -103.957647	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.1	No	BH01	40	40	SP-SM	(0-55') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	<116	0.1	No	BH01	42	42		
Dry	240	0.0	No	BH01	44	44		
Dry	<116	0.0	No	BH01	46	46		
Dry	<116	0.0	No	BH01	48	48		@ 47.5' About 3" of mottling.
Dry	<116	0.0	No	BH01	50	50		@ 50' Color change to red with traces of yellow mottling.
Dry	<116	0.0	No	BH01	52	52		
Dry	<116	0.0	No	BH01	54	54		
Dry	<116	0.0	No	BH01	55	55		

Total Depth

	Sample Name: BH02	Date: 05/16/2024, 05/22/2024 & 05/23/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004164, -103.957219	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	952	0.4	No	BH02	0.5	0.5	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	1,188	0.3	No	BH02	1	1		
Dry	1,188	0.8	No	BH02	2	2		@ 2' Color Change from light brown to reddish brown, some gypsum (1-5mm), no more organic.
Dry	2,068	0.8	No	BH02	4	4		
Dry	1,188	0	No	BH02	6	6		@ 8' Increase silt from some to abundant. @ 0.5-16' Utilized hand auger.
Dry	1,696	0.1	No	BH02	8	8		
Dry	1,694	0.4	No	BH02	10	10		@ 10' Color change to dark brown, trace gypsum, trace reduction spots.
Dry	2,472	0.0	No	BH02	12	12		
Dry	2,472	0.0	No	BH02	14	14		
						15		@ 15' Color change to brown, decrease in reduction spots, no gypsum.
Dry	2,244	0.0	No	BH02	16	16		
Dry	2,244	0.0	No	BH02	17	17		@ 17' Refusal.
Dry	1,600	0.3	No	BH02	18	18		@ 16-55' Utilized sonic rig.
Dry	1,496	0.1	No	BH02	20	20		
Dry	1,716	0.2	No	BH02	22	22		
Dry	1,396	0.5	No	BH02	24	24		

eTECH	Sample Name: BH02	Date: 05/16/2024, 05/22/2024 & 05/23/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004164, -103.957219	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,212	0.8	No	BH02	26	26	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	1,212	0.7	No	BH02	28	28		
Dry	1,128	0.0	No	BH02	30	30		
Dry	1,212	0.5	No	BH02	32	32		
								@ 33' Increase of reduction spots
Dry	1,300	0.1	No	BH02	34	34		
Dry	900	0.4	No	BH02	36	36		
Dry	1,128	0.0	No	BH02	38	38		
Dry	828	0.1	No	BH02	40	40		
Dry	972	0.3	No	BH02	42	42		
								@ 43' About 4" of abundant gypsum
Dry	356	0.1	No	BH02	44	44		

eTECH	Sample Name: BH02	Date: 05/16/2024, 05/22/2024 & 05/23/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004164, -103.957219	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	356	0.1	No	BH02	46	46	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	284	0.4	No	BH02	48	48		
Dry	284	0.0	No	BH02	50	50		
Dry	356	0.0	No	BH02	52	52		
Dry	356	0.0	No	BH02	54	54		
Dry	284	0.0	No	BH02	55	55		

Total Depth

eTECH	Sample Name: BH03	Date: 05/16/2024, 05/22/2024, 05/23/2024, & 11/04/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004216, -103.956916	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<124	0.4	No	BH03	0.5	0.5	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	1,104	0.3	No	BH03	1	1		
Dry	4,400	0.5	No	BH03	2	2		
Dry	5,592	0.4	No	BH03	4	4		@ 4' Abundant silt
Dry	7,140	0.0	No	BH03	6	6		
Dry	6,576	0.0	No	BH03	8	8		
Dry	2,252	0.0	No	BH03	10	10		@ 10' Decrease silt from abundant to some
Dry	1,696	0.0	No	BH03	12	12		
Dry	1,532	0.0	No	BH03	14	14		
Dry	1,800	0.0	No	BH03	16	16		@ 16' Some gypsum
Dry	3,516	0.0	No	BH03	18	18		
Dry	2,708	0.0	No	BH03	20	20		
Dry	2,708	0.0	No	BH03	22	22		
Dry	3,516	0.0	No	BH03	24	24		
Dry	1,696	0.0	No	BH03	24	24		
Dry	1,104	0.0	No	BH03	26	26		

eTECH	Sample Name: BH03	Date: 05/16/2024, 05/22/2024, 05/23/2024, & 11/04/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004216, -103.956916	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,708	0.0	No	BH03	28	28	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	2,708	0.0	No	BH03	30	30		
Dry	2,708	0.0	No	BH03	32	32		
Dry	1,696	0.0	No	BH03	34	34		
Dry	1,532	0.0	No	BH03	36	36		
Dry	1,532	0.0	No	BH03	38	38		
Dry	1,532	0.0	No	BH03	40	40		
Dry	1,532	0.0	No	BH03	42	42		
Dry	1,104	0.0	No	BH03	44	44		
Dry	1,104	0.0	No	BH03	46	46		

eTECH	Sample Name: BH03	Date: 05/16/2024, 05/22/2024, 05/23/2024, & 11/04/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004164, -103.957219	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	972	0.0	No	BH03	48	48	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	644	0.0	No	BH03	50	50		
Dry	644	0.0	No	BH03	52	52		
Dry	644	0.0	No	BH03	54	54		
Dry	644	0.0	No	BH03	55	55		

Total Depth

eTECH	Sample Name: BH04	Date: 05/16/2024, 05/22/2024, 05/23/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004192, -103.956927	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,800	0.3	No	BH04	0.5	0.5	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt,
Dry	2,924	0.6	No	BH04	1	1		very fine-fine grain, organic, no stain, no odor.
Dry	4,060	0.2	No	BH04	2	2		@ 2' Color Change from light brown to reddish brown no more organic.
Dry	6,064	0.2	No	BH04	4	4		@0-20' Utilized hand auger.
Dry	10,068	0.0	No	BH04	6	6		
Dry	11,028	0.0	No	BH04	8	8		@ 8' Increase silt from some to abundant
Dry	8,448	0.0	No	BH04	10	10		
Dry	1,228	0.0	No	BH04	12	12		
Dry	3,744	0.0	No	BH04	14	14		@ 14' Some gypsum.
Dry	1,696	0.0	No	BH04	16	16		@ 16' No gypsum.
Dry	952	0.0	No	BH04	18	18		
Dry	692	0.0	No	BH04	20	20		
Dry	1,276	0.0	No	BH04	20	20		@ 20-55' Utilized sonic rig.
Dry	3,516	0.0	No	BH04	22	22		
Dry	2,924	0.0	No	BH04	24	24		
Dry	2,924	0.0	No	BH04	26	26		
Dry	2,708	0.0	No	BH04	28	28		

	Sample Name: BH04	Date: 05/16/2024, 05/22/2024, 05/23/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004192, -103.956927	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,708	0.0	No	BH04	28	28	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	2,708	0.0	No	BH04	30	30		
Dry	2,708	0.0	No	BH04	32	32		
Dry	1,696	0.0	No	BH04	34	34		
Dry	1,532	0.0	No	BH04	36	36		
Dry	1,532	0.0	No	BH04	38	38		
Dry	1,532	0.0	No	BH04	40	40		
Dry	1,532	0.0	No	BH04	42	42		
Dry	1,104	0.0	No	BH04	44	44		
Dry	1,104	0.0	No	BH04	46	46		

eTECH	Sample Name: BH04	Date: 05/16/2024, 05/22/2024, 05/23/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004192, -103.956927	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,104	0.0	No	BH04	48	48	SP-SM	(0-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	952	0.0	No	BH04	50	50		
Dry	644	0.0	No	BH04	52	52		
Dry	644	0.0	No	BH04	54	54		
Dry	644	0.0	No	BH04	55	55		

Total Depth

eTECH	Sample Name: BH05	Date: 05/16/2024, 05/22/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004240, -103.956691	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,368	0.1	No	BH05	0.5	0.5	SW-SM	(0-4') SAND, dry, brown, well graded with silt, fine-coarse grain, organic, trace gravel no stain, no odor.
Dry	1,800	0.0	No		1	1		
Dry	1,368	0.0	No		2	2		@ 2' Color Change from light brown to reddish brown no more organic.
Dry	4,400	0.3	No	BH05	4	4		
							SP-SM	(4-27') SAND, dry, dark brown, poorly graded with silt, very fine to fine grain, trace gypsum, no stain, no odor.
Dry	4,060	0.0	No		6	6		@ 0.5-16' Utilized hand auger.
Dry	3,452	0.0	No	BH05	8	8		
Dry	3,452	0.0	No		10	10		@ 10' Some gypsum
Dry	1,696	0.0	No	BH05	12	12		
Dry	2,252	0.0	No		14	14		
Dry	2,684	0.0	No	BH05	16	16		
Dry	1,836	0.0	No	BH05	16	16		@ 16-55' Utilized sonic rig.
Dry	1,600	0.3	No	BH05	18	18		
Dry	1,600	0.0	No	BH05	20	20		
Dry	1,836	0.2	No	BH05	22	22		
Dry	1,212	0.5	No	BH05	24	24		@ 25' Color change to brown

	Sample Name: BH05	Date: 05/16/2024, 05/22/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004240, -103.956691	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,496	0.3	No	BH05	26	26	SP-SM	(4-27') SAND, dry, brown, poorly graded with silt, very fine to fine grain, trace gypsum, no stain, no odor.
Dry	1,396	0.0	No	BH05	28	28	CL	(27-55') CLAY, dry, brown, cohesive, low plasticity, trace gypsum crystaline, no stain, no odor.
Dry	1,496	0.0	No	BH05	30	30		
Dry	1,040	0.1	No	BH05	32	32		
Dry	1,212	0.8	No	BH05	34	34		
Dry	1,300	0.3	No	BH05	36	36		
Dry	1,496	0.1	No	BH05	38	38		
Dry	1,292	0.4	No	BH05	40	40		
Dry	1,292	0.3	No	BH05	42	42		@ 42' Increase in gypsum crystaline.
Dry	1,144	0.5	No	BH05	44	44		

eTECH	Sample Name: BH05	Date: 05/16/2024, 05/22/2024 & 11/05/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004240, -103.956691	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,144	0.2	No	BH05	46	46	CL	(27-55') CLAY, dry, brown, cohesive, low plasticity, trace gypsum crystaline, no stain, no odor.
Dry	644	0.2	No	BH05	48	48		
Dry	644	0.1	No	BH05	50	50		
Dry	972	0.3	No	BH05	52	52		
Dry	644	0.5	No	BH05	54	54		
Dry	556	0.0	No	BH05	55	55		

Total Depth

eTECH	Sample Name: BH06	Date: 05/16/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004263, -103.956517	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<124	0.3	No	BH06	0.5	0.5	SW-SM	(0-2') SAND, dry, brown, well graded with silt, fine-coarse grain, organic, some subrounded to rounded gravel (1-2mm), no stain, no odor.
Dry	<124	0.3	No	BH06	1	1		@ 0.5-4' Utilized hand auger.
Dry	<124	0.4	No	BH06	2	2	SP-SM	(2-36') SAND, dry, light brown, poorly graded with some silt, very fine-fine grain, no stain, no odor.
Dry	<124	0.0	No	BH06	4	4		
Dry	<124	0.2	No	BH06	4	4		@ 4-55' Utilzed sonic rig.
Dry	1296	0.0	No	BH06	6	6		
Dry	1,296	0.0		BH06	8	8		@ 8' Color change to brown, trace gypsum vein.
Dry	1,612	0.0		BH06	10	10		
Dry	1,292	0.0		BH06	12	12		
Dry	1,296	0.0		BH06	14	14		@ 15' Decrease in gypsum.

eTECH	Sample Name: BH06	Date: 05/16/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004263, -103.956517	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,296	0.0	No	BH06	16	16	SP-SM	(2-36') SAND, dry, light brown, poorly graded with some silt, very fine-fine grain, no stain, no odor.
Dry	1,612	0.0	No	BH06	18	18		
Dry	972	0.0	No	BH06	20	20		
Dry	900	0.0	No	BH06	22	22		@ 22.5' Increase in gypsum, color change to light brown.
Dry	1,212	0.0	No	BH06	24	24		
Dry	1,048	0.0	No	BH06	26	26		@ 26' Increase in silt.
Dry	1,212	0.0	No	BH06	28	28		
Dry	1,048	0.0	No	BH06	30	30		
Dry	1,212	0.0	No	BH09	32	32		
Dry	900	0.0	No	BH09	34	34		

	Sample Name: BH06	Date: 05/16/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004263, -103.956517	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	900	0.0	No	BH06	36	36	CL	(36-48') CLAY, dry, dark tan, cohesive, low plasticity, trace reduction spots, no stain, no odor.
Dry	972	0.0	No	BH06	38	38		
Dry	1,448	0.0	No	BH06	40	40		
Dry	1,048	0.0	No	BH06	42	42		
Dry	1,292	0.0	No	BH06	44	44		
Dry	1,048	0.0	No	BH06	46	46		
Dry	536	0.0	No	BH06	48	48	SP-SM	(48-55') SAND, dry, tan, poorly graded with abundant silt, very fine to fine grain, trace gypsum, crystaline, no stain, no odor.
Dry	644	0.0	No	BH06	50	50		
Dry	764	0.0	No	BH09	52	52		
Dry	484	0.0	No	BH09	54	54		
Dry	484	0.0	No	BH09	55	55		

eTECH	Sample Name: BH07	Date: 05/22/2024, 05/23/2024 & 11/06/2024	
	Site Name: East Pecos 22-3 Produced Water Gathering Line		
	Incident Number: nAB1614039576 & NAB1616628496		
	Job Number: 19381		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig	
Delineation Soil Sample Coordinates: 32.004282, -103.956296	Hole Diameter: 4 inches	Total Depth: 55 feet	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	5,592	0.2	No	BH07	0.5	0.5	SW-SM	(0-10') SAND, dry, brown, well graded with silt, fine-coarse grain, organic, some subrounded to rounded gravel (1-2mm), no stain, no odor.
Dry	4,764	0.0	No	BH07	1	1		
Dry	5,164	0.0	No	BH07	2	2		@ 2' Color Change from light brown to reddish brown no more organic.
Dry	3,744	0.0	No	BH07	4	4		
Dry	1,464	0.0	No	BH07	6	6		@ 0-12' Utilized hand auger.
Dry	952	0.0	No	BH07	8	8		
Dry	764	0.0	No	BH07	10	10	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	764	0.0	No	BH07	12	12		
Dry	764	0.0	No	BH07	12	12		@ 12-55' Utilized sonic rig.
Dry	644	0.0	No	BH07	14	14		
Dry	764	0.0	No	BH07	16	16		@ 17' Decrease in gypsum crystaline
Dry	1,272	0.0	No	BH07	18	18		
Dry	972	0.0	No	BH07	20	20		
Dry	972	0.0	No	BH07	22	22		@ 22' Color change to dark brown, increase in silt

eTECH	Sample Name: BH07	Date: 05/22/2024, 05/23/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004282, -103.956296	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,212	0.0	No	BH07	24	24	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	1,396	0.0	No	BH07	26	26		
Dry	1,964	0.0	No	BH07	28	28		
Dry	1,212	0.0	No	BH07	30	30		
Dry	1,396	0.0	No	BH07	32	32		@ 32' Increase in silt, some clay.
Dry	1,496	0.0	No	BH07	34	34		
Dry	1,300	0.0	No	BH07	36	36		
Dry	828	0.0	No	BH07	38	38		
Dry	828	0.0	No	BH07	40	40		
Dry	644	0.0	No	BH07	42	42		

eTECH	Sample Name: BH07	Date: 05/22/2024, 05/23/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004282, -103.956296	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	644	0.0	No	BH07	44	44	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	644	0.0	No	BH07	46	46		@ 46' Color change to tan, decrease in clay.
Dry	644	0.0	No	BH07	48	48		
Dry	644	0.0	No	BH07	50	50		
Dry	644	0.0	No	BH07	52	52		
Dry	644	0.0	No	BH07	54	54		
Dry	644	0.0	No	BH07	55	55		

Total Depth

eTECH	Sample Name: BH08	Date: 05/22/2024, 05/23/2024 & 11/06/2024	
	Site Name: East Pecos 22-3 Produced Water Gathering Line		
	Incident Number: nAB1614039576 & NAB1616628496		
	Job Number: 19381		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig	
Delineation Soil Sample Coordinates: 32.004323, -103.955950	Hole Diameter: 4 inches	Total Depth: 55 feet	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,680	0.0	No	BH08	0.5	0.5	SW-SM	(0-1') SAND, dry, brown, well graded with silt, fine-coarse grain, organic, some subrounded to rounded gravel (1-4mm), no stain, no odor.
Dry	2,056	0.0	No	BH08	1	1		
Dry	1,928	0.0	No	BH08	2	2	SP-SM	(1-6') SAND, dry, light brown, poorly graded with some silt, very fine-fine grain, no stain, no odor.
Dry	1,800	0.0	No	BH08	4	4		@ 2' No more organic.
Dry	436	0.0	No	BH08	6	6	SW-SM	(6-8') SAND, dry, brown, well graded with silt, fine-coarse grain, some subrounded to rounded gravel (1-4mm), no stain, no odor.
Dry	352	0.0	No	BH08	8	8		@ 0.5-8' Utilized hand auger.
Dry	396	0.0	No	BH08	10	10		@ 10-55' Utilized sonic rig.
Dry	396	0.0	No	BH08	12	12		@ 10' Color change to reddish brown, trace silt, decrease in gravel.
Dry	440	0.0	No	BH08	14	14	SP-SM	(14-49') SAND, dry, brown, poorly graded with silt, very fine to fine grain, poorly consolidated, no stain or odor.
Dry	440	0.0	No	BH08	16	16		
Dry	536	0.0	No	BH08	18	18		
Dry	536	0.0	No	BH08	20	20		
Dry	536	0.0	No	BH08	22	22		

eTECH	Sample Name: BH08	Date: 05/22/2024, 05/23/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004323, -103.955950	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	644	0.0	No	BH08	24	24	SP-SM	(14-49') SAND, dry, brown, poorly graded with silt, very fine to fine grain, poorly consolidated, no stain or odor.
Dry	1,144	0.0	No	BH08	26	26		
Dry	1,048	0.0	No	BH08	28	28		
Dry	1,048	0.0	No	BH08	30	30		
Dry	1,144	0.0	No	BH08	32	32		
Dry	1,612	0.0	No	BH08	34	34		
Dry	1,448	0.0	No	BH08	36	36		
Dry	1,012	0.0	No	BH08	38	38		
Dry	1,788	0.0	No	BH08	40	40		@ 39' Moderately consolidated, trace reduction spots, abundant silt.
Dry	700	0.0	No	BH08	42	42		

eTECH	Sample Name: BH08	Date: 05/22/2024, 05/23/2024 & 11/06/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Hand Auger/ Sonic Rig
Delineation Soil Sample Coordinates: 32.004323, -103.955950	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	828	0.0	No	BH08	44	44	SP-SM	(14-49') SAND, dry, brown, poorly graded with silt, very fine to fine grain, poorly consolidated, no stain or odor.
Dry	828	0.0	No	BH08	46	46		@ 45' Color change to tan.
Dry	764	0.0	No	BH08	48	48		
Dry	644	0.0	No	BH08	50	50	SW-SM	(49-55') Sand, dry, tan, well graded with trace silt, fine to coarse grain, small to medium subrounded to subangular gravel, no stain or odor.
Dry	484	0.0	No	BH08	52	52		
Dry	220	0.0	No	BH08	54	54		
Dry	140	0.0	No	BH08	55	55		

Total Depth

eTECH	Sample Name: BH09	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004335, -103.955890	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.1	No	BH09	0.5	0.5	SW-SM	(0-6') SAND, dry, reddish brown, well graded with silt, very fine to coarse grain, trace small gravel, no stain or odor.
Dry	<116	0.3	No	BH09	2	2		
Dry	<116	0.2	No	BH09	4	4		
Dry	140	0.0	No	BH09	6	6		
Dry	164	0.5	No	BH09	8	8	SP-SM	(6-51') Sand, dry, brown, poorly graded with some silt, very fine to fine grain, trace reduction spots, moderately consolidated.
Dry	164	0.4	No	BH09	10	10		
Dry	396	0.0	No	BH09	12	12		
Dry	396	0.1	No	BH09	14	14		
Dry	356	0.1	No	BH09	16	16		
Dry	284	0.1	No	BH09	18	18		

eTECH	Sample Name: BH09	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004335, -103.955890	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	316	0.1	No	BH09	20	20	SP-SM	(6-51') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, trace reduction spots, moderately consolidated.
Dry	284	0.0	No	BH09	22	22		
Dry	284	0.3	No	BH09	24	24		
Dry	316	0.0	No	BH09	26	26		
Dry	284	0.0	No	BH09	28	28		
Dry	316	0.2	No	BH09	30	30		
Dry	248	0.2	No	BH09	32	32		@ 32' Decrease of consolidation (very loose sand), no reduction spots.
Dry	248	0.1	No	BH09	34	34		
Dry	284	0.0	No	BH09	36	36		
Dry	284	0.7	No	BH09	38	38		

eTECH	Sample Name: BH09	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004335, -103.955890	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	140	0.0	No	BH09	40	40	SP-SM	(6-51') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, trace reduction spots, moderately consolidated.
Dry	140	0.1	No	BH09	42	42		
Dry	164	0.0	No	BH09	44	44		
Dry	140	0.3	No	BH09	46	46		@ 46' Increase in consolidation, trace reduction spots.
Dry	<116	0.2	No	BH09	48	48		
Dry	<116	0.0	No	BH09	50	50		
Dry	<116	0.0	No	BH09	52	52	SW-SM	(51-55') SAND, dry, tan, well graded with trace silt, fine to very coarse grain, small to medium, subangular to subrounded gravel, no stain or odor.
Dry	<116	0.0	No	BH09	54	54		
Dry	<116	0.0	No	BH09	55	55		
						Total Depth		

	Sample Name: BH10	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004130, -103.957529	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH10	0.5	0.5	SP-SM	(0-26') SAND, dry, reddish brown, poorly graded with abundant silt, very fine-fine grain, trace reduction spots, trace gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH10	2	2		
Dry	<116	0.0	No	BH10	4	4		
Dry	<116	0.0	No	BH10	6	6		
Dry	<116	0.0	No	BH10	8	8		
Dry	<116	0.0	No	BH10	10	10		
Dry	<116	0.0	No	BH10	12	12		
Dry	<116	0.0	No	BH10	14	14		
Dry	<116	0.0	No	BH10	16	16		
Dry	<116	0.0	No	BH10	18	18		

eTECH	Sample Name: BH10	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004130, -103.957529	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH10	20	20	SP-SM	(0-26') SAND, dry, reddish brown, poorly graded with abundant silt, very fine-fine grain, trace reduction spots, trace gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH10	22	22		
Dry	<116	0.0	No	BH10	24	24		
								@ 25' Color change to reddish tan.
Dry	<116	0.0	No	BH10	26	26	SP-ST	(26-30') SANDSTONE, dry, yellowish tan, poorly graded with some silt, moderately consolidated, no stain, no odor.
Dry	<116	0.0	No	BH10	28	28		
Dry	<116	0.0	No	BH10	30	30	SP-SM	(30-55') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	<116	0.0	No	BH10	32	32		
Dry	<116	0.0	No	BH10	34	34		
Dry	<116	0.0	No	BH10	36	36		
Dry	<116	0.0	No	BH10	38	38		

eTECH	Sample Name: BH10	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004130, -103.957529	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH10	40	40	SP-SM	(30-55') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	<116	0.0	No	BH10	42	42		
Dry	<116	0.0	No	BH10	44	44		
Dry	<116	0.0	No	BH10	46	46		
Dry	<116	0.0	No	BH10	48	48		
Dry	<116	0.0	No	BH10	50	50		
Dry	<116	0.0	No	BH10	52	52		
Dry	<116	0.0	No	BH10	54	54		
Dry	<116	0.0	No	BH10	55	55		
						Total Depth		

eTECH	Sample Name: BH11	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004159, -103.957121	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	248	0.0	No	BH11	0.5	0.5	SP-SM	(0-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, trace gypsum crystaline, no stain, no odor.
Dry	220	0.0	No	BH11	2	2		
Dry	316	0.0	No	BH11	4	4		
Dry	484	0.0	No	BH11	6	6		
Dry	440	0.0	No	BH11	8	8		
Dry	1,788	0.0	No	BH11	10	10		
Dry	2,162	0.0	No	BH11	12	12		@ 12' Color change to reddish brown, some reduction spots, no gypsum.
Dry	2,380	0.0	No	BH11	14	14		
Dry	2,380	0.0	No	BH11	16	16		
Dry	1,612	0.0	No	BH11	18	18		
Dry	1,292	0.0	No	BH11	20	20		
Dry	1,144	0.0	No	BH11	22	22		

eTECH	Sample Name: BH11	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004159, -103.957121	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,144	0.0	No	BH11	24	24	SP-SM	(0-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, trace gypsum crystaline, no stain, no odor.
Dry	1,296	0.0	No	BH11	26	26		
Dry	1,448	0.0	No	BH11	28	28		
Dry	1,292	0.0	No	BH11	30	30		
Dry	1,612	0.0	No	BH11	32	32		@ 32' Increase in reduction spots, trace clay.
Dry	1,788	0.0	No	BH11	34	34		
Dry	1,972	0.0	No	BH11	36	36		
Dry	2,168	0.0	No	BH11	38	38		
Dry	2,168	0.0	No	BH11	40	40		
Dry	700	0.0	No	BH11	42	42		@ 43' Decrease in silt, no clay.

eTECH	Sample Name: BH11	Date: 11/07/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004159, -103.957121	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	828	0.0	No	BH11	44	44	SP-SM	(0-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, trace gypsum crystaline, no stain, no odor.
Dry	764	0.0	No	BH11	46	46		
Dry	700	0.0	No	BH11	48	48		
Dry	284	0.0	No	BH11	50	50		
Dry	316	0.0	No	BH11	52	52		
Dry	284	0.0	No	BH11	54	54		
Dry	284	0.0	No	BH11	55	55		

Total Depth

eTECH	Sample Name: BH12	Date: 11/08/2024	
	Site Name: East Pecos 22-3 Produced Water Gathering Line		
	Incident Number: nAB1614039576 & NAB1616628496		
	Job Number: 19381		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig	
Delineation Soil Sample Coordinates: 32.0042422, -103.9563344	Hole Diameter: 4 inches	Total Depth: 55 feet	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	248	0.0	No	BH12	0.5	0.5	SW-SM	(0-10') SAND, dry, brown, well graded with silt, fine-coarse grain, organic, some subrounded to rounded gravel (1-2mm), no stain, no odor.
Dry	484	0.0	No	BH12	2	2		
Dry	484	0.0	No	BH12	4	4		@ 2' Color Change from light brown to reddish brown no more organic.
Dry	484	0.0	No	BH12	6	6		
Dry	484	0.0	No	BH12	8	8		
Dry	<116	0.0	No	BH12	10	10	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH12	12	12		
Dry	<116	0.0	No	BH12	12	12		
Dry	<116	0.0	No	BH12	14	14		
Dry	<116	0.0	No	BH12	16	16		
								@ 17' Decrease in gypsum crystaline
Dry	<116	0.0	No	BH12	18	18		
Dry	<116	0.0	No	BH12	20	20		
Dry	<116	0.0	No	BH12	22	22		@ 22' Color change to dark brown, increase in silt

eTECH	Sample Name: BH12	Date: 11/08/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.0042422, -103.9563344	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH12	24	24	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH12	26	26		
Dry	<116	0.0	No	BH12	28	28		
Dry	<116	0.0	No	BH12	30	30		
Dry	<116	0.0	No	BH12	32	32		@ 32' Increase in silt, some clay.
Dry	<116	0.0	No	BH12	34	34		
Dry	<116	0.0	No	BH12	36	36		
Dry	<116	0.0	No	BH12	38	38		
Dry	<116	0.0	No	BH12	40	40		
Dry	<116	0.0	No	BH12	42	42		

eTECH	Sample Name: BH12	Date: 11/08/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.0042422, -103.9563344	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH12	44	44	SP-SM	(10-55') SAND, dry, brown, poorly graded with some silt, very fine to fine grain, some gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH12	46	46		@ 46' Color change to tan, decrease in clay.
Dry	<116	0.0	No	BH12	48	48		
Dry	<116	0.0	No	BH12	50	50		
Dry	<116	0.0	No	BH12	52	52		
Dry	<116	0.0	No	BH12	54	54		
Dry	<116	0.0	No	BH12	55	55		

Total Depth

eTECH	Sample Name: BH13	Date: 11/08/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004202, -103.957295	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH13	0.5	0.5	SP-SM	(0-26') SAND, dry, reddish brown, poorly graded with abundant silt, very fine-fine grain, trace reduction spots, trace gypsum crystaline, no stain, no odor.
Dry	<116	0.0	No	BH13	2	2		
Dry	<116	0.0	No	BH13	4	4		
Dry	<116	0.0	No	BH13	6	6		
Dry	<116	0.0	No	BH13	8	8		
Dry	396	0.0	No	BH13	10	10		
Dry	396	0.0	No	BH13	12	12		
Dry	396	0.0	No	BH13	14	14		
Dry	356	0.0	No	BH13	16	16		
Dry	356	0.0	No	BH13	18	18		

eTECH	Sample Name: BH13	Date: 11/08/2024	
	Site Name: East Pecos 22-3 Produced Water Gathering Line		
	Incident Number: nAB1614039576 & NAB1616628496		
	Job Number: 19381		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig	
Delineation Soil Sample Coordinates: 32.004202, -103.957295	Hole Diameter: 4 inches	Total Depth: 55 feet	

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	220	0.0	No	BH13	20	20	SP-SM	(0-26') SAND, dry, reddish brown, poorly graded with abundant silt, very fine-fine grain, trace reduction spots, trace gypsum crystaline, no stain, no odor.
Dry	356	0.0	No	BH13	22	22		
Dry	248	0.0	No	BH13	24	24		
								@ 25' Color change to reddish tan
Dry	140	0.0	No	BH13	26	26	SP-ST	(26-30') SANDSTONE, dry, yellowish tan, poorly graded with some silt, moderately consolidated, no stain, no odor.
Dry	104	0.0	No	BH13	28	28		
Dry	140	0.0	No	BH13	30	30	SP-SM	(30-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	<116	0.0	No	BH13	32	32		
Dry	<116	0.0	No	BH13	34	34		
Dry	<116	0.0	No	BH13	36	36		
Dry	<116	0.0	No	BH13	38	38		
Dry	284	0.0	No	BH13	40	40		

eTECH	Sample Name: BH13	Date: 11/08/2024
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & NAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: EK	Method: Sonic Rig
Delineation Soil Sample Coordinates: 32.004159, -103.957121	Hole Diameter: 4 inches	Total Depth: 55 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	284	0.0	No	BH13	42	42	SP-SM	(30-55') SAND, dry, light brown, poorly graded with silt, very fine-fine grain, organic, no stain, no odor.
Dry	284	0.0	No	BH13	44	44		
Dry	284	0.0	No	BH13	46	46		
Dry	284	0.0	No	BH13	48	48		
Dry	<116	0.0	No	BH13	50	50		
Dry	<116	0.0	No	BH13	52	52		
Dry	<116	0.0	No	BH13	54	54		
Dry	<116	0.0	No	BH13	55	55		

Total Depth

eTECH	Sample Name: BH14	Date: 06/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004261, -103.956884	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<116	0.0	No	BH14	0.5	0.5		
Dry	221	0.0	No	BH14	1	1		
Dry	<116	0.0	No	BH14	2	2		
Dry	<116	0.0	No	BH14	3	3		
Dry	<116	0.0	No	BH14	4	4		
						Total Depth		

eTECH	Sample Name: BH15	Date: 06/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004323, -103.956438	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<116	0.0	No	BH15	0.5	0.5		
Dry	<116	0.0	No	BH15	1	1		
Dry	<116	0.0	No	BH15	2	2		
Dry	<116	0.0	No	BH15	3	3		
Dry	140	0.0	No	BH15	4	4		
						Total Depth		

eTECH	Sample Name: BH16	Date: 06/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004346, -103.956152	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace gypsum crystalline, no staining or odor.
Dry	228	0.0	No	BH16	0.5	0.5		
Dry	412	0.0	No	BH16	1	1		
Dry	412	0.0	No	BH16	2	2		
Dry	332	0.0	No	BH16	3	3		
Dry	196	0.0	No	BH16	4	4		
						Total Depth		

eTECH	Sample Name: BH17	Date: 06/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004270, -103.956133	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-4') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	452	0.0	No	BH17	0.5	0.5		
Dry	2,024	0.0	No	BH17	1	1		
Dry	1,748	0.0	No	BH17	2	2		
Dry	1,624	0.0	No	BH17	3	3		
Dry	1,404	0.0	No	BH17	4	4		
						Total Depth		

eTECH	Sample Name: BH18	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004231, -103.956509	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	168	0.0	No	BH18	0.5	0.5		
Dry	260	0.0	No	BH18	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	1,304	0.0	No	BH18	2	2		
Dry	1,624	0.0	No	BH18	3	3		
Dry	1,624	0.0	No	BH18	4	4		

Total Depth

eTECH	Sample Name: BH19	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004181, -103.956978	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	1,828	0.0	No	BH19	0.5	0.5		
Dry	1,404	0.0	No	BH19	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	492	0.0	No	BH19	2	2		
Dry	1,880	0.0	No	BH19	3	3		
Dry	968	0.0	No	BH19	4	4		
						Total Depth		

eTECH	Sample Name: BH20	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Haleigh Blume	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004060, -103.957100	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	500	0.0	No	BH20	0.5	0.5		
Dry	1,624	0.0	No	BH20	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	2,026	0.0	No	BH20	2	2		
Dry	2,026	0.0	No	BH20	3	3		
Dry	1,896	0.0	No	BH20	4	4		
						Total Depth		

eTECH	Sample Name: BH21	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004078, -103.956889	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	368	0.0	No	BH21	0.5	0.5		
Dry	228	0.0	No	BH21	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	500	0.0	No	BH21	2	2		
Dry	768	0.0	No	BH21	3	3		
Dry	768	0.0	No	BH21	4	4		
						Total Depth		

eTECH	Sample Name: BH22	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004127, -103.956422	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	296	0.0	No	BH22	0.5	0.5		
Dry	228	0.0	No	BH22	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	228	0.0	No	BH22	2	2		
Dry	832	0.0	No	BH22	3	3		
Dry	968	0.0	No	BH22	4	4		
						Total Depth		

eTECH	Sample Name: BH23	Date: 06/12/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004161, -103.956073	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SW-SM	(0'-1') SAND with gravel, dry, reddish brown, fine to coarse grain, well graded with silt, subangular to subrounded gravel (2"), no staining or odor.
Dry	228	0.0	No	BH23	0.5	0.5		
Dry	332	0.0	No	BH23	1	1	SP-SM	(1-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	548	0.0	No	BH23	2	2		
Dry	412	0.0	No	BH23	3	3		
Dry	332	0.0	No	BH23	4	4		
						Total Depth		

eTECH	Sample Name: BH24	Date: 06/13/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.003973, -103.957085	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace gypsum crystalline, no staining or odor.
Dry	<116	0.0	No	BH24	0.5	0.5		
Dry	<116	0.0	No	BH24	1	1		
Dry	548	0.0	No	BH24	2	2		
Dry	500	0.0	No	BH24	3	3		
Dry	836	0.0	No	BH24	4	4		
						Total Depth		

eTECH	Sample Name: BH25	Date: 06/13/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.003993, -103.956874	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace gypsum crystalline, no staining or odor.
Dry	600	0.0	No	BH25	0.5	0.5		
Dry	772	0.0	No	BH25	1	1		
Dry	1,292	0.0	No	BH25	2	2		
Dry	1,292	0.0	No	BH25	3	3		
Dry	1,056	0.0	No	BH25	4	4		
						Total Depth		

eTECH	Sample Name: BH26	Date: 06/13/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004065, -103.956414	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace gypsum crystalline, no staining or odor.
Dry	<116	0.0	No	BH26	0.5	0.5		
Dry	260	0.0	No	BH26	1	1		
Dry	500	0.0	No	BH26	2	2		
Dry	804	0.0	No	BH26	3	3		
Dry	1,520	0.0	No	BH26	4	4		
						Total Depth		

eTECH	Sample Name: BH27	Date: 06/13/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004095, -103.956067	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace gypsum crystalline, no staining or odor.
Dry	<116	0.0	No	BH27	0.5	0.5		
Dry	<116	0.0	No	BH27	1	1		
Dry	160	0.0	No	BH27	2	2		
Dry	244	0.0	No	BH27	3	3		
Dry	348	0.0	No	BH27	4	4		
						Total Depth		

eTECH	Sample Name: BH28	Date: 07/10/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.004000, -103.956401	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<112	0.0	No	BH28	0.5	0.5		
Dry	<112	0.1	No	BH28	1	1		
Dry	300	0.1	No	BH28	2	2		@ 2' Increase in gypsum crystaline from none to trace.
Dry	508	0.6	No	BH28	3	3		
Dry	856	0.7	No	BH28	4	4		
						Total Depth		

eTECH	Sample Name: BH29	Date: 07/10/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.003965, -103.956396	Hole Diameter: 4 inches	Total Depth: 4 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<112	0.0	No	BH29	0.5	0.5		
Dry	156	0.1	No	BH29	1	1		
Dry	184	0.3	No	BH29	2	2		@ 2' Increase in gypsum crystaline from none to trace.
Dry	236	0.3	No	BH29	3	3		
Dry	236	0.2	No	BH29	4	4		
						Total Depth		

eTECH	Sample Name: BH30	Date: 07/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.003964, -103.956869	Hole Diameter: 4 inches	Total Depth: 3 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<112	0.3	No	BH30	0.5	0.5		
Dry	<112	0.3	No	BH30	1	1		
Dry	1,152	0.5	No	BH30	2	2		@ 2' Increase in gypsum crystaline from none to trace.
Dry	1,628	0.4	No	BH30	3	3		@ 3' Refusal.

Total Depth

eTECH	Sample Name: BH31	Date: 07/11/2025
	Site Name: East Pecos 22-3 Produced Water Gathering Line	
	Incident Number: nAB1614039576 & nAB1616628496	
	Job Number: 19381	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Edyte Konan	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.003911, -103.956863	Hole Diameter: 4 inches	Total Depth: 3 feet

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						0	SP-SM	(0-4') SAND with silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, no staining or odor.
Dry	<112	0.2	No	BH31	0.5	0.5		
Dry	176	0.1	No	BH31	1	1		
Dry	412	0.2	No	BH31	2	2		@ 2' Increase in gypsum crystaline from none to trace.
Dry	412	0.2	No	BH31	3	3		@ 3' Refusal.

Total Depth

APPENDIX F

Photographic Log

PHOTOGRAPHIC LOG
WPX Energy Permian, LLC.
East Pecos 22-3 Produced Water Gathering Line
Incident Numbers: nAB1614039576 & nAB1616628496



Photograph 1 **Date: 05/22/2024**
Description: Southeastern view of delineation activities.



Photograph 2 **Date: 06/11/2025**
Description: Southwestern view of delineation activities.



Photograph 3 **Date: 06/12/2025**
Description: Southwestern view of delineation activities.



Photograph 4 **Date: 06/13/2025**
Description: Northeastern view of delineation activities.

APPENDIX G

Tables

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH01*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	73.3	<25.0	73.3	26.2
BH01	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	11/07/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	32.7
BH01	11/07/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	11/07/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH01	11/07/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH01	11/07/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	11/07/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH01	11/07/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.3
BH01	11/07/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	46.1
BH01	11/07/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH01	11/07/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH01	11/07/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.0
BH01	11/07/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.7
BH01	11/07/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH01	11/07/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	11/07/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.3
BH01	11/07/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.2
BH01	11/07/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	57.1
BH01	11/07/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	59.1
BH01	11/07/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.3
BH01	11/07/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	38.0
BH02*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**912**

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH02	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,300
BH02	05/22/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,460
BH02	05/23/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,800
BH02	05/23/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,270
BH02	11/05/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,380
BH02	11/05/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
BH02	11/05/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,430
BH02	11/05/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,820
BH02	11/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,430
BH02	11/05/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
BH02	11/05/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,160
BH02	11/05/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,150
BH02	11/05/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,340
BH02	11/05/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,700
BH02	11/05/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
BH02	11/05/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
BH02	11/05/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,040
BH02	11/05/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
BH02	11/05/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	336
BH02	11/05/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	375
BH02	11/05/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	349
BH02	11/05/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	343
BH02	11/05/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	398
BH02	11/05/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	404
BH02	11/05/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	297
BH03*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	28.2	67.6	28.2	95.8	81.8
BH03	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,050
BH03	05/22/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,910
BH03	05/22/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,610
BH03	05/22/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,950

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH03	05/23/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,210
BH03	05/23/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,420
BH03	11/04/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,060
BH03	11/04/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,800
BH03	11/04/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,140
BH03	11/04/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,380
BH03	11/04/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,250
BH03	11/04/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,990
BH03	11/04/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,850
BH03	11/04/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
BH03	11/04/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
BH03	11/04/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
BH03	11/04/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,580
BH03	11/04/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
BH03	11/04/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,250
BH03	11/04/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	924
BH03	11/04/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	940
BH03	11/04/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	799
BH03	11/04/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	772
BH04*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	503	834	503	**1,340**	**1,940**
BH04	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,440
BH04	05/22/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,450
BH04	05/22/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,350
BH04	05/22/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,670
BH04	05/23/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	336
BH04	11/05/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,960
BH04	11/05/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,680
BH04	11/05/2024	24	<0.0500	<0.1000	<40.0	<25.0	<50.0	<25.0	<50.0	3,630
BH04	11/05/2024	26	<0.0500	<0.1000	<40.0	<25.0	<50.0	<25.0	<50.0	3,350
BH04	11/05/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,170

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH04	11/05/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,950
BH04	11/05/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,310
BH04	11/05/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,120
BH04	11/05/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,900
BH04	11/05/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,790
BH04	11/05/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,570
BH04	11/05/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
BH04	11/05/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,530
BH04	11/05/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,380
BH04	11/05/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
BH04	11/05/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
BH04	11/05/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	855
BH04	11/05/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	792
BH04	11/05/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	816
BH05*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,270**
BH05	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,980
BH05	05/22/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,800
BH05	05/22/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,800
BH05	05/22/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,640
BH05	11/05/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,940
BH05	11/05/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,060
BH05	11/05/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,900
BH05	11/05/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,970
BH05	11/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,290
BH05	11/05/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,810
BH05	11/05/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,650
BH05	11/05/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,760
BH05	11/05/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,280
BH05	11/05/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,330
BH05	11/05/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,980

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH05	11/05/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,410
BH05	11/05/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,970
BH05	11/05/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,480
BH05	11/05/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,310
BH05	11/05/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,340
BH05	11/05/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,490
BH05	11/05/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,350
BH05	11/05/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,470
BH05	11/05/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	453
BH05	11/05/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,450
BH06*	05/16/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	158
BH06	05/16/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06	11/06/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,330
BH06	11/06/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH06	11/06/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,540
BH06	11/06/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,800
BH06	11/06/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,670
BH06	11/06/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,760
BH06	11/06/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,460
BH06	11/06/2024	18	<0.0500	<0.1000	<40.0	<25.0	<50.0	<25.0	<50.0	1,880
BH06	11/06/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,160
BH06	11/06/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	933
BH06	11/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,040
BH06	11/06/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,090
BH06	11/06/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,870
BH06	11/06/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,930
BH06	11/06/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,750
BH06	11/06/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
BH06	11/06/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,550
BH06	11/06/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,470

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH06	11/06/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,510
BH06	11/06/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
BH06	11/06/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,560
BH06	11/06/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
BH06	11/06/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	932
BH06	11/06/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	831
BH06	11/06/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	808
BH06	11/06/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	678
BH06	11/06/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	477
BH07*	05/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**4,270**
BH07	05/22/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,710
BH07	05/23/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	853
BH07	11/06/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	716
BH07	05/23/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	347
BH07	11/06/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	847
BH07	11/06/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,300
BH07	11/06/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH07	11/06/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,320
BH07	11/06/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
BH07	11/06/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,060
BH07	11/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,060
BH07	11/06/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,240
BH07	11/06/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,750
BH07	11/06/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,010
BH07	11/06/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,850
BH07	11/06/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,390
BH07	11/06/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,200
BH07	11/06/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	737
BH07	11/06/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	677
BH07	11/06/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	672

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH07	11/06/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	633
BH07	11/06/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	928
BH07	11/06/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	868
BH07	11/06/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	908
BH07	11/06/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	825
BH07	11/06/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	808
BH07	11/06/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	376
BH08*	05/22/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,920**
BH08	05/22/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
BH08	05/23/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	326
BH08	11/06/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	454
BH08	11/06/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	434
BH08	11/06/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	419
BH08	11/06/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	440
BH08	11/06/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	433
BH08	11/06/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	476
BH08	11/06/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	585
BH08	11/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	637
BH08	11/06/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	993
BH08	11/06/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	596
BH08	11/06/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	600
BH08	11/06/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	528
BH08	11/06/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	665
BH08	11/06/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	562
BH08	11/06/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	803
BH08	11/06/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	902
BH08	11/06/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	721
BH08	11/06/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	888
BH08	11/06/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	787
BH08	11/06/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	661

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH08	11/06/2024	50	<0.0250	0.0375	<20.0	<25.0	<50.0	<25.0	<50.0	591
BH08	11/06/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
BH08	11/06/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
BH08	11/06/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	162
BH09*	11/07/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.1
BH09*	11/07/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH09	11/07/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH09	11/07/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	267
BH09	11/07/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	267
BH09	11/07/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	264
BH09	11/07/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	265
BH09	11/07/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	263
BH09	11/07/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	256
BH09	11/07/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	336
BH09	11/07/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
BH09	11/07/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	196
BH09	11/07/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	126
BH09	11/07/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
BH09	11/07/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
BH09	11/07/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
BH09	11/07/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	132
BH09	11/07/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	137
BH09	11/07/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	132
BH09	11/07/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH09	11/07/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH09	11/07/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	354
BH09	11/07/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	354
BH09	11/07/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH09	11/07/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	172
BH09	11/07/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	174

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH09	11/07/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	191
BH09	11/07/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
BH09	11/07/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10*	11/07/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH10*	11/07/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	54.2
BH10	11/07/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.0
BH10	11/07/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.2
BH10	11/07/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	51.0
BH10	11/07/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.0
BH10	11/07/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	65.9
BH10	11/07/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH10	11/07/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH10	11/07/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH10	11/07/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH10	11/07/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH10	11/07/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH11*	11/07/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	174
BH11*	11/07/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	185
BH11	11/07/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	427
BH11	11/07/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	358
BH11	11/07/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	360
BH11	11/07/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,240
BH11	11/07/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,830
BH11	11/07/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,830
BH11	11/07/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,790
BH11	11/07/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,100
BH11	11/07/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,070
BH11	11/07/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,100
BH11	11/07/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,030
BH11	11/07/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,970
BH11	11/07/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,240
BH11	11/07/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,250
BH11	11/07/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,350
BH11	11/07/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,360
BH11	11/07/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,400
BH11	11/07/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,370
BH11	11/07/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,250
BH11	11/07/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,580
BH11	11/07/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,250
BH11	11/07/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,300
BH11	11/07/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	196
BH11	11/07/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	486
BH11	11/07/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	561
BH11	11/07/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	485

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH11	11/07/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	576
BH12*	11/08/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	378
BH12*	11/08/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	505
BH12	11/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	528
BH12	11/08/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	546
BH12	11/08/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	484
BH12	11/08/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.7
BH12	11/08/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.2
BH12	11/08/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.6
BH12	11/08/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.7
BH12	11/08/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.3
BH12	11/08/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.8
BH12	11/08/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	65.1
BH12	11/08/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.7
BH12	11/08/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.0
BH12	11/08/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.4
BH12	11/08/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.8
BH12	11/08/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.2
BH12	11/08/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.8
BH12	11/08/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.1
BH12	11/08/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.7
BH12	11/08/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	58.8
BH12	11/08/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	63.4
BH12	11/08/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.7
BH12	11/08/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.7
BH12	11/08/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	534
BH12	11/08/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	513
BH12	11/08/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	480
BH12	11/08/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	182
BH12	11/08/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	168

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH13*	11/08/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	183
BH13*	11/08/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	178
BH13	11/08/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
BH13	11/08/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
BH13	11/08/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
BH13	11/08/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH13	11/08/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	396
BH13	11/08/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	374
BH13	11/08/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	396
BH13	11/08/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	381
BH13	11/08/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
BH13	11/08/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	391
BH13	11/08/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
BH13	11/08/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	128
BH13	11/08/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	127
BH13	11/08/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
BH14*	06/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.5

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH14*	06/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	231
BH14*	06/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.1
BH14*	06/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.7
BH14	06/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	48.7
BH15*	06/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.1
BH15*	06/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	63.9
BH15*	06/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	36.2
BH15*	06/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	50.3
BH15	06/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
BH16*	06/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	198
BH16*	06/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	223
BH16*	06/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
BH16*	06/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	231
BH16	06/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	421
BH17*	06/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**766**
BH17*	06/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**2,440**
BH17*	06/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,760**
BH17*	06/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,640**
BH17	06/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,510
BH18*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	261
BH18	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,850
BH19*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**2,120**[f]
BH19*	06/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**2,540**[f]
BH19	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,420
BH20*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	372
BH20*	06/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**2,250**
BH20	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,200
BH21*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	472
BH21	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	831
BH22*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	215

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH22	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,040
BH23*	06/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH23*	06/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**671**
BH23	06/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	338
BH24*	06/13/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.3
BH24*	06/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH24*	06/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	284
BH24*	06/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	341
BH24	06/13/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	276
BH25*	06/13/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**610**
BH25*	06/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**824**
BH25*	06/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,470**
BH25*	06/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,810**
BH25	06/13/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,530
BH26*	06/13/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH26*	06/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH26*	06/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	376
BH26*	06/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,160**
BH26	06/13/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,700
BH27*	06/13/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH27*	06/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH27*	06/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH27*	06/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
BH27	06/13/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	402
BH28*	07/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH28*	07/10/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH28*	07/10/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466
BH28*	07/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**744**
BH28	07/10/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	833
BH29*	07/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
East Pecos 22-3 Produced Water Gathering Line
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			**10**	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
Delineation Soil Samples - Incident Numbers nAB1614039576 & nAB1616628496										
BH29*	07/10/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
BH29*	07/10/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	200
BH29*	07/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	282
BH29	07/10/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	281
BH30*	07/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH30*	07/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
BH30*	07/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**969**
BH30*	07/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,530**
BH31*	07/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
BH31*	07/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
BH31*	07/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	527
BH31*	07/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	517

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
Text in "grey" represents excavated soil samples
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard † for Soils Impacted by a Release*
*" * "Soil sample was collected in the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13, if exceeding the reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH.*

APPENDIX H

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

Report to:

Gilbert Moreno









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E405265
Job Number:	01058-0007
Received:	5/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/29/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/29/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E405265
Date Received: 5/20/2024 9:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2024 9:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/29/24 13:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E405265-01A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH01 4'	E405265-02A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH02 0.5'	E405265-03A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH02 4'	E405265-04A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH03 0.5'	E405265-05A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH03 4'	E405265-06A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH04 0.5'	E405265-07A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH04 4'	E405265-08A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH05 0.5'	E405265-09A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH05 4'	E405265-10A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH06 0.5'	E405265-11A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.
BH06 4'	E405265-12A	Soil	05/16/24	05/20/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH01 0.5'

E405265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	**73.3**	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**26.2**	20.0	1	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH01 4'

E405265-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	ND	20.0	1	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH02 0.5'

E405265-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**912**	200	10	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH02 4'

E405265-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**2300**	200	10	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH03 0.5'

E405265-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	**28.2**	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	**67.6**	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**81.8**	40.0	2	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH03 4'

E405265-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.7 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**5050**	100	5	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH04 0.5'

E405265-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	**503**	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	**834**	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**1940**	100	5	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH04 4'

E405265-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**5440**	200	10	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH05 0.5'

E405265-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.5 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.5 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**1270**	200	10	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH05 4'

E405265-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.2 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.2 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**3980**	100	5	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH06 0.5'

E405265-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.3 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.3 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	**158**	100	5	05/23/24	05/23/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

BH06 4'

E405265-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Benzene	ND	0.0250	1	05/23/24	05/26/24	
Ethylbenzene	ND	0.0250	1	05/23/24	05/26/24	
Toluene	ND	0.0250	1	05/23/24	05/26/24	
o-Xylene	ND	0.0250	1	05/23/24	05/26/24	
p,m-Xylene	ND	0.0500	1	05/23/24	05/26/24	
Total Xylenes	ND	0.0250	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.9 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2421112
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/24	05/26/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.9 %*	*70-130*	*05/23/24*	*05/26/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/23/24*	*05/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2421101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/24	05/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/24	05/26/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*05/23/24*	*05/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2421106
Chloride	ND	20.0	1	05/23/24	05/23/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2421112-BLK1)									Prepared: 05/23/24 Analyzed: 05/26/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.3*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
LCS (2421112-BS1)									Prepared: 05/23/24 Analyzed: 05/26/24
Benzene	2.26	0.0250	2.50		90.4	70-130			
Ethylbenzene	2.50	0.0250	2.50		99.9	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.18	0.0500	5.00		104	70-130			
Total Xylenes	7.78	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	*0.559*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2421112-BSD1)									Prepared: 05/23/24 Analyzed: 05/26/24
Benzene	2.28	0.0250	2.50		91.1	70-130	0.705	23	
Ethylbenzene	2.47	0.0250	2.50		98.7	70-130	1.21	27	
Toluene	2.44	0.0250	2.50		97.6	70-130	2.71	24	
o-Xylene	2.62	0.0250	2.50		105	70-130	0.689	27	
p,m-Xylene	5.18	0.0500	5.00		104	70-130	0.106	27	
Total Xylenes	7.80	0.0250	7.50		104	70-130	0.302	27	
Surrogate: Bromofluorobenzene	*0.563*		*0.500*		*113*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.465*		*0.500*		*92.9*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2421112-BLK1)									Prepared: 05/23/24 Analyzed: 05/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.3*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
LCS (2421112-BS2)									Prepared: 05/23/24 Analyzed: 05/26/24
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	*0.556*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.471*		*0.500*		*94.1*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS Dup (2421112-BSD2)									Prepared: 05/23/24 Analyzed: 05/26/24
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130	2.09	20	
Surrogate: Bromofluorobenzene	*0.560*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.447*		*0.500*		*89.3*	*70-130*			
Surrogate: Toluene-d8	*0.538*		*0.500*		*108*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2421101-BLK1)									Prepared: 05/23/24 Analyzed: 05/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.4*		*50.0*		*113*	*50-200*			
LCS (2421101-BS1)									Prepared: 05/23/24 Analyzed: 05/26/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	*57.6*		*50.0*		*115*	*50-200*			
LCS Dup (2421101-BSD1)									Prepared: 05/23/24 Analyzed: 05/26/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132	0.657	20	
Surrogate: n-Nonane	*57.5*		*50.0*		*115*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/29/2024 1:58:39PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2421106-BLK1)									Prepared: 05/23/24 Analyzed: 05/23/24
Chloride	ND	20.0							
LCS (2421106-BS1)									Prepared: 05/23/24 Analyzed: 05/23/24
Chloride	249	20.0	250		99.5	90-110			
LCS Dup (2421106-BSD1)									Prepared: 05/23/24 Analyzed: 05/23/24
Chloride	251	20.0	250		101	90-110	1.00	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/29/24 13:58

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 7:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT	EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E405265	Job Number 01053-0007	1D 2D 3D Standard: 5 day TAT	CWA SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.			RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method		State: NM CO UT AZ TX
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502			
Phone: 832-541-7719	Email: jim.raley@dvn.com			
Email: Devon-team@etechenv.com	WO: 21255735			
	Incident ID: nAB1614039576 and nAB1616628496			
Collected by: Edyte Konan				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
9:00	05.16.24	S	1	BH01	1	0.5'								x				
9:10	05.16.24	S	1	BH01	2	4'								x				
9:20	05.16.24	S	1	BH02	3	0.5'								x				
9:30	05.16.24	S	1	BH02	4	4'								x				
9:40	05.16.24	S	1	BH03	5	0.5'								x				
9:50	05.16.24	S	1	BH03	6	4'								x				
10:00	05.16.24	S	1	BH04	7	0.5'								x				
10:10	05.16.24	S	1	BH04	8	4'								x				
10:20	05.16.24	S	1	BH05	9	0.5'								x				
10:30	05.16.24	S	1	BH05	10	4'								x				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5.17.24	1530		5.17.24	1530
	5.17.24	1730		5/20/24	0930

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

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

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

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

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 2

| | | |

Envirotech Analytical Laboratory

Printed: 5/22/2024 2:04:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	05/20/24 09:30	Work Order ID:	E405265
Phone:	(539) 573-4018	Date Logged In:	05/20/24 09:33	Logged In By:	Angelina Pineda
Email:	devon-team@etechenv.com	Due Date:	05/24/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E405360
Job Number:	01058-0007
Received:	5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/5/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E405360
Date Received: 5/28/2024 10:00:41AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/05/24 14:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 8'	E405360-01A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH03 8'	E405360-02A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH03 12'	E405360-03A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH03 16'	E405360-04A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH04 8'	E405360-05A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH04 12'	E405360-06A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH04 16'	E405360-07A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH05 8'	E405360-08A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH05 12'	E405360-09A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH05 16'	E405360-10A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH07 0.5'	E405360-11A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH07 4'	E405360-12A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH08 0.5'	E405360-13A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.
BH08 4'	E405360-14A	Soil	05/22/24	05/28/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH02 8'

E405360-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1460**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH03 8'

E405360-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**5910**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH03 12'

E405360-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*85.0 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1610**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH03 16'

E405360-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*87.7 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*87.7 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**2950**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH04 8'

E405360-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**9450**	400	20	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH04 12'

E405360-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*86.6 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*86.6 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**5350**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH04 16'

E405360-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1670**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH05 8'

E405360-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.1 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.1 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**2800**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH05 12'

E405360-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1800**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH05 16'

E405360-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*87.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*87.3 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**2640**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH07 0.5'

E405360-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.5 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*88.5 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**4270**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH07 4'

E405360-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/04/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*06/03/24*	*06/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**2710**	20.0	1	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH08 0.5'

E405360-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.9 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1920**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

BH08 4'

E405360-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Benzene	ND	0.0250	1	05/30/24	06/04/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/04/24	
Toluene	ND	0.0250	1	05/30/24	06/04/24	
o-Xylene	ND	0.0250	1	05/30/24	06/04/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/04/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2422095
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/04/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*05/30/24*	*06/04/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*05/30/24*	*06/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423006
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2423012
Chloride	**1730**	20.0	1	06/03/24	06/03/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2422095-BLK1)									Prepared: 05/30/24 Analyzed: 06/04/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.553*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.1*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			
LCS (2422095-BS1)									Prepared: 05/30/24 Analyzed: 06/04/24
Benzene	2.32	0.0250	2.50		92.8	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.50	0.0250	2.50		100	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.23	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	*0.553*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.456*		*0.500*		*91.2*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
LCS Dup (2422095-BSD1)									Prepared: 05/30/24 Analyzed: 06/04/24
Benzene	2.25	0.0250	2.50		89.9	70-130	3.20	23	
Ethylbenzene	2.47	0.0250	2.50		98.6	70-130	1.39	27	
Toluene	2.46	0.0250	2.50		98.4	70-130	1.67	24	
o-Xylene	2.57	0.0250	2.50		103	70-130	1.99	27	
p,m-Xylene	5.15	0.0500	5.00		103	70-130	1.49	27	
Total Xylenes	7.72	0.0250	7.50		103	70-130	1.66	27	
Surrogate: Bromofluorobenzene	*0.563*		*0.500*		*113*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.463*		*0.500*		*92.6*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2422095-BLK1)									Prepared: 05/30/24 Analyzed: 06/04/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.553*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.1*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			
LCS (2422095-BS2)									Prepared: 05/30/24 Analyzed: 06/04/24
Gasoline Range Organics (C6-C10)	56.9	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	*0.563*		*0.500*		*113*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.453*		*0.500*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS Dup (2422095-BSD2)									Prepared: 05/30/24 Analyzed: 06/04/24
Gasoline Range Organics (C6-C10)	57.7	20.0	50.0		115	70-130	1.37	20	
Surrogate: Bromofluorobenzene	*0.553*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.443*		*0.500*		*88.5*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2423006-BLK1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.4*		*50.0*		*113*	*50-200*			
LCS (2423006-BS1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	294	25.0	250		117	38-132			
Surrogate: n-Nonane	*55.6*		*50.0*		*111*	*50-200*			
LCS Dup (2423006-BSD1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132	1.41	20	
Surrogate: n-Nonane	*57.4*		*50.0*		*115*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 2:13:29PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2423012-BLK1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	ND	20.0							
LCS (2423012-BS1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	249	20.0	250		99.5	90-110			
LCS Dup (2423012-BSD1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	249	20.0	250		99.5	90-110	0.0563	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/05/24 14:13

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 2

| | | |

Report to:

Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E405359
Job Number:	01058-0007
Received:	5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/5/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E405359
Date Received: 5/28/2024 10:00:41AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/05/24 16:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 12'	E405359-01A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH02 16'	E405359-02A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH03 20'	E405359-03A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH03 24'	E405359-04A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH04 20'	E405359-05A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH07 8'	E405359-06A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH07 12'	E405359-07A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.
BH08 8'	E405359-08A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH02 12'

E405359-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**2800**	20.0	1	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH02 16'

E405359-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.1 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.1 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**2270**	20.0	1	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH03 20'

E405359-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**3210**	40.0	2	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH03 24'

E405359-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.6 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**3420**	40.0	2	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH04 20'

E405359-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**336**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH07 8'

E405359-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.5 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.5 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**853**	200	10	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH07 12'

E405359-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.5 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*95.5 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**347**	100	5	06/03/24	06/03/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

BH08 8'

E405359-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Benzene	ND	0.0250	1	05/30/24	06/03/24	
Ethylbenzene	ND	0.0250	1	05/30/24	06/03/24	
Toluene	ND	0.0250	1	05/30/24	06/03/24	
o-Xylene	ND	0.0250	1	05/30/24	06/03/24	
p,m-Xylene	ND	0.0500	1	05/30/24	06/03/24	
Total Xylenes	ND	0.0250	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2422075
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/03/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*70-130*	*05/30/24*	*06/03/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*05/30/24*	*06/03/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2423004
Diesel Range Organics (C10-C28)	ND	25.0	1	06/03/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/03/24	06/05/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*06/03/24*	*06/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2423010
Chloride	**326**	100	5	06/03/24	06/03/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2422075-BLK1)									Prepared: 05/30/24 Analyzed: 06/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.481*		*0.500*		*96.1*	*70-130*			
LCS (2422075-BS1)									Prepared: 05/30/24 Analyzed: 06/05/24
Benzene	2.95	0.0250	2.50		118	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.49	0.0250	2.50		99.4	70-130			
o-Xylene	2.25	0.0250	2.50		90.2	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130			
Total Xylenes	6.94	0.0250	7.50		92.5	70-130			
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.461*		*0.500*		*92.2*	*70-130*			
LCS Dup (2422075-BSD1)									Prepared: 05/30/24 Analyzed: 06/03/24
Benzene	2.69	0.0250	2.50		108	70-130	9.30	23	
Ethylbenzene	2.65	0.0250	2.50		106	70-130	2.49	27	
Toluene	2.50	0.0250	2.50		100	70-130	0.622	24	
o-Xylene	2.39	0.0250	2.50		95.7	70-130	5.92	27	
p,m-Xylene	4.97	0.0500	5.00		99.5	70-130	5.97	27	
Total Xylenes	7.36	0.0250	7.50		98.2	70-130	5.96	27	
Surrogate: Bromofluorobenzene	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.485*		*0.500*		*96.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2422075-BLK1)									Prepared: 05/30/24 Analyzed: 06/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.481*		*0.500*		*96.1*	*70-130*			
LCS (2422075-BS2)									Prepared: 05/30/24 Analyzed: 06/03/24
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	*0.515*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.489*		*0.500*		*97.8*	*70-130*			
LCS Dup (2422075-BSD2)									Prepared: 05/30/24 Analyzed: 06/03/24
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130	13.3	20	
Surrogate: Bromofluorobenzene	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.492*		*0.500*		*98.3*	*70-130*			
Surrogate: Toluene-d8	*0.488*		*0.500*		*97.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2423004-BLK1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.5*		*50.0*		*109*	*50-200*			
LCS (2423004-BS1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	291	25.0	250		117	38-132			
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*50-200*			
LCS Dup (2423004-BSD1)									Prepared: 06/03/24 Analyzed: 06/04/24
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132	0.439	20	
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	6/5/2024 4:53:21PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2423010-BLK1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	ND	20.0							
LCS (2423010-BS1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	248	20.0	250		99.4	90-110			
LCS Dup (2423010-BSD1)									Prepared: 06/03/24 Analyzed: 06/03/24
Chloride	248	20.0	250		99.0	90-110	0.356	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	06/05/24 16:53

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 1

| | | |

Envirotech Analytical Laboratory

Printed: 5/28/2024 11:34:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	05/28/24 10:00	Work Order ID:	E405359
Phone:	(539) 573-4018	Date Logged In:	05/25/24 19:03	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	06/04/24 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Envirotech Analytical Laboratory

Printed: 5/28/2024 11:59:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	05/28/24 10:00	Work Order ID:	E405360
Phone:	(539) 573-4018	Date Logged In:	05/25/24 19:03	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	06/04/24 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411113
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411113
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 4'	E411113-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 6'	E411113-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 8'	E411113-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 10'	E411113-04A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 12'	E411113-05A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 14'	E411113-06A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 16'	E411113-07A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 18'	E411113-08A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 20'	E411113-09A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 22'	E411113-10A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 24'	E411113-11A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 26'	E411113-12A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 28'	E411113-13A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 30'	E411113-14A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 32'	E411113-15A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 34'	E411113-16A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 36'	E411113-17A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 38'	E411113-18A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 40'	E411113-19A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 42'	E411113-20A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 44'	E411113-21A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 46'	E411113-22A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 48'	E411113-23A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 4'

E411113-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	**32.7**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 6'

E411113-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 8'

E411113-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	200	10	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 10'

E411113-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 12'

E411113-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 14'

E411113-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 16'

E411113-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 18'

E411113-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 20'

E411113-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 22'

E411113-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	**62.3**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 24'

E411113-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	**46.1**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 26'

E411113-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 28'

E411113-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 30'

E411113-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 32'

E411113-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 34'

E411113-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 36'

E411113-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 38'

E411113-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	**42.0**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 40'

E411113-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	**56.7**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 42'

E411113-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446055
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446106
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 44'

E411113-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.7 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	ND	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 46'

E411113-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*86.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*86.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**44.3**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

BH01 48'

E411113-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*93.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*93.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**44.2**	20.0	1	11/13/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446053-BLK1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.453*		*0.500*		*90.5*	*70-130*			
LCS (2446053-BS1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	2.56	0.0250	2.50		102	70-130			
Ethylbenzene	2.81	0.0250	2.50		112	70-130			
Toluene	2.70	0.0250	2.50		108	70-130			
o-Xylene	2.88	0.0250	2.50		115	70-130			
p,m-Xylene	5.84	0.0500	5.00		117	70-130			
Total Xylenes	8.72	0.0250	7.50		116	70-130			
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS Dup (2446053-BSD1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	2.48	0.0250	2.50		99.1	70-130	3.33	23	
Ethylbenzene	2.71	0.0250	2.50		108	70-130	3.51	27	
Toluene	2.64	0.0250	2.50		106	70-130	2.43	24	
o-Xylene	2.79	0.0250	2.50		111	70-130	3.25	27	
p,m-Xylene	5.59	0.0500	5.00		112	70-130	4.39	27	
Total Xylenes	8.38	0.0250	7.50		112	70-130	4.01	27	
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.46	0.0250	2.50		98.6	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.74	0.0250	2.50		109	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.27	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS Dup (2446058-BSD1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.45	0.0250	2.50		97.8	70-130	0.794	23	
Ethylbenzene	2.68	0.0250	2.50		107	70-130	0.599	27	
Toluene	2.60	0.0250	2.50		104	70-130	0.192	24	
o-Xylene	2.78	0.0250	2.50		111	70-130	1.56	27	
p,m-Xylene	5.64	0.0500	5.00		113	70-130	1.92	27	
Total Xylenes	8.42	0.0250	7.50		112	70-130	1.80	27	
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446053-BLK1)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.453*		*0.500*		*90.5*	*70-130*			
LCS (2446053-BS2)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	56.1	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS Dup (2446053-BSD2)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130	2.05	20	
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2446058-BSD2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130	0.548	20	
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*0.529*		*0.500*		*106*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446055-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.8*		*50.0*		*114*	*50-200*			
LCS (2446055-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	*56.4*		*50.0*		*113*	*50-200*			
Matrix Spike (2446055-MS1)				**Source: E411113-05**					Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	*58.3*		*50.0*		*117*	*50-200*			
Matrix Spike Dup (2446055-MSD1)				**Source: E411113-05**					Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	0.579	20	
Surrogate: n-Nonane	*58.1*		*50.0*		*116*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446061-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			
LCS (2446061-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike (2446061-MS1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2446061-MSD1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	0.0562	20	
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446096-BLK1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	ND	20.0							
LCS (2446096-BS1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2446096-BSD1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	252	20.0	250		101	90-110	0.275	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:48:28AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446106-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446106-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	249	20.0	250		99.7	90-110			
LCS Dup (2446106-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	251	20.0	250		100	90-110	0.542	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:48

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411113 Job Number 01051-0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard (5 day TAT)

EPA Program: CWA | SDWA | RCRA

State: NM (x) | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/ Anion | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	Remarks
12:00	11.07.24	S	1	BH01	21	44'	x	
12:05	11.07.24	S	1	BH01	22	46'	x	
12:10	11.07.24	S	1	BH01	23	48'	x	

11/11/2024

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[illegible]	11/11/24	20:00	Michelle Gonzalez	11-11-24	2000
Michelle Gonzalez	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	[signature]	11.13.24	9:45

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:41:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411113
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:42	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411112
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411112
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 50'	E411112-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 52'	E411112-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 54'	E411112-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH01 55'	E411112-04A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

BH01 50'

E411112-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**57.1**	40.0	2	11/13/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

BH01 52'

E411112-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**59.1**	20.0	1	11/13/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

BH01 54'

E411112-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**44.3**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

BH01 55'

E411112-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**38.0**	20.0	1	11/13/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.46	0.0250	2.50		98.6	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.74	0.0250	2.50		109	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.27	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS Dup (2446058-BSD1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.45	0.0250	2.50		97.8	70-130	0.794	23	
Ethylbenzene	2.68	0.0250	2.50		107	70-130	0.599	27	
Toluene	2.60	0.0250	2.50		104	70-130	0.192	24	
o-Xylene	2.78	0.0250	2.50		111	70-130	1.56	27	
p,m-Xylene	5.64	0.0500	5.00		113	70-130	1.92	27	
Total Xylenes	8.42	0.0250	7.50		112	70-130	1.80	27	
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2446058-BSD2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130	0.548	20	
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*0.529*		*0.500*		*106*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446061-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			
LCS (2446061-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike (2446061-MS1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2446061-MSD1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	0.0562	20	
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:50:41AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446096-BLK1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	ND	20.0							
LCS (2446096-BS1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2446096-BSD1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	252	20.0	250		101	90-110	0.275	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:50

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 1

| | | |

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:40:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411112
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:37	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411065
Job Number:	01058-0007
Received:	11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/13/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411065
Date Received: 11/7/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/24 09:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 16'	E411065-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 18'	E411065-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 20'	E411065-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 22'	E411065-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 24'	E411065-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 26'	E411065-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 28'	E411065-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 30'	E411065-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 32'	E411065-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 34'	E411065-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 36'	E411065-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 38'	E411065-12A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 40'	E411065-13A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 42'	E411065-14A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 44'	E411065-15A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 46'	E411065-16A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 48'	E411065-17A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 16'

E411065-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**2380**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 18'

E411065-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*98.8 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1620**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 20'

E411065-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*88.8 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1430**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 22'

E411065-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1820**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 24'

E411065-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1430**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 26'

E411065-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*98.4 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1100**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 28'

E411065-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1160**	40.0	2	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 30'

E411065-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1150**	40.0	2	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 32'

E411065-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1340**	100	5	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 34'

E411065-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1700**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 36'

E411065-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*99.1 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1310**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 38'

E411065-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1280**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 40'

E411065-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*98.5 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1040**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 42'

E411065-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**1090**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 44'

E411065-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*97.7 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**336**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 46'

E411065-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**375**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

BH02 48'

E411065-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445096
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445142
Chloride	**349**	20.0	1	11/08/24	11/11/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445096-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.07*		*8.00*		*88.4*	*70-130*			
LCS (2445096-BS1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.35*		*8.00*		*91.9*	*70-130*			
LCS Dup (2445096-BSD1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	5.14	0.0250	5.00		103	70-130	1.58	20	
Ethylbenzene	5.00	0.0250	5.00		99.9	70-130	1.53	20	
Toluene	5.09	0.0250	5.00		102	70-130	1.60	20	
o-Xylene	4.98	0.0250	5.00		99.6	70-130	1.39	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	1.47	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	1.44	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.37*		*8.00*		*92.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445096-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.3*	*70-130*			
LCS (2445096-BS2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.63*		*8.00*		*95.4*	*70-130*			
LCS Dup (2445096-BSD2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130	1.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.55*		*8.00*		*94.4*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445125-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.9*		*50.0*		*85.9*	*50-200*			
LCS (2445125-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	*48.9*		*50.0*		*97.7*	*50-200*			
LCS Dup (2445125-BSD1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132	3.89	20	
Surrogate: n-Nonane	*48.2*		*50.0*		*96.4*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/2024 9:16:57AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445142-BLK1)									Prepared: 11/08/24 Analyzed: 11/11/24
Chloride	ND	20.0							
LCS (2445142-BS1)									Prepared: 11/08/24 Analyzed: 11/11/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2445142-MS1)				**Source: E411065-06**					Prepared: 11/08/24 Analyzed: 11/11/24
Chloride	1490	20.0	250	1100	158	80-120			M4
Matrix Spike Dup (2445142-MSD1)				**Source: E411065-06**					Prepared: 11/08/24 Analyzed: 11/11/24
Chloride	1490	20.0	250	1100	157	80-120	0.168	20	M4

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/13/24 09:16

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 2

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __2___ of __2___

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411065 Job Number 01058.0007
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/ Anion | BGDOC NM | | GDOC TX | | Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
12:50	11.05.24	S	1	BH02	11	36'	x		
13:00	11.05.24	S	1	BH02	12	38'	x		
13:10	11.05.24	S	1	BH02	13	40'	x		
13:20	11.05.24	S	1	BH02	14	42'	x		
13:30	11.05.24	S	1	BH02	15	44'	x		
13:40	11.05.24	S	1	BH02	16	46'	x		
13:50	11.05.24	S	1	BH02	17	48'	x		

11/06/24

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Hyff~~	11/06/24	06:00	Michelle Gonzales	11-6-24	0600
Michelle Gonzales	11-6-24	1630		11.6.24	1800
	11.7.24	0600	Raina Schwanz	11/7/24	7:30

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/7/2024 9:38:34AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/07/24 07:30	Work Order ID:	E411065
Phone:	(539) 573-4018	Date Logged In:	11/06/24 15:13	Logged In By:	Caitlin Mars
Email:	devon-team@etechenv.com	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411061
Job Number:	01058-0007
Received:	11/7/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411061
Date Received: 11/7/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 10:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 50'	E411061-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 52'	E411061-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 54'	E411061-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH02 55'	E411061-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

BH02 50'

E411061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Benzene	ND	0.0250	1	11/07/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/07/24	
Toluene	ND	0.0250	1	11/07/24	11/07/24	
o-Xylene	ND	0.0250	1	11/07/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.7 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445136
Chloride	**343**	20.0	1	11/08/24	11/08/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

BH02 52'

E411061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Benzene	ND	0.0250	1	11/07/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/07/24	
Toluene	ND	0.0250	1	11/07/24	11/07/24	
o-Xylene	ND	0.0250	1	11/07/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445136
Chloride	**398**	20.0	1	11/08/24	11/08/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

BH02 54'

E411061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Benzene	ND	0.0250	1	11/07/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/07/24	
Toluene	ND	0.0250	1	11/07/24	11/07/24	
o-Xylene	ND	0.0250	1	11/07/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445136
Chloride	**404**	20.0	1	11/08/24	11/08/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

BH02 55'

E411061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Benzene	ND	0.0250	1	11/07/24	11/07/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/07/24	
Toluene	ND	0.0250	1	11/07/24	11/07/24	
o-Xylene	ND	0.0250	1	11/07/24	11/07/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/07/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/07/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.0 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445094
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/07/24*	*11/07/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445136
Chloride	**297**	20.0	1	11/08/24	11/08/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445094-BLK1)									Prepared: 11/07/24 Analyzed: 11/07/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.09*		*8.00*		*88.6*	*70-130*			
LCS (2445094-BS1)									Prepared: 11/07/24 Analyzed: 11/07/24
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.3	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.94	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.08*		*8.00*		*88.5*	*70-130*			
LCS Dup (2445094-BSD1)									Prepared: 11/07/24 Analyzed: 11/07/24
Benzene	5.17	0.0250	5.00		103	70-130	0.0881	20	
Ethylbenzene	4.98	0.0250	5.00		99.6	70-130	0.338	20	
Toluene	5.10	0.0250	5.00		102	70-130	0.321	20	
o-Xylene	5.00	0.0250	5.00		100	70-130	1.18	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.479	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	0.711	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.03*		*8.00*		*87.8*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445094-BLK1)									Prepared: 11/07/24 Analyzed: 11/07/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.39*		*8.00*		*92.3*	*70-130*			
LCS (2445094-BS2)									Prepared: 11/07/24 Analyzed: 11/07/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0		85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.43*		*8.00*		*92.9*	*70-130*			
LCS Dup (2445094-BSD2)									Prepared: 11/07/24 Analyzed: 11/07/24
Gasoline Range Organics (C6-C10)	41.1	20.0	50.0		82.2	70-130	3.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.4*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445105-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*55.4*		*50.0*		*111*	*50-200*			
LCS (2445105-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	*55.7*		*50.0*		*111*	*50-200*			
LCS Dup (2445105-BSD1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132	3.06	20	
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 10:26:56AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445136-BLK1)									Prepared: 11/08/24 Analyzed: 11/08/24
Chloride	ND	20.0							
LCS (2445136-BS1)									Prepared: 11/08/24 Analyzed: 11/08/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2445136-MS1)				**Source: E411061-03**					Prepared: 11/08/24 Analyzed: 11/08/24
Chloride	679	20.0	250	404	110	80-120			
Matrix Spike Dup (2445136-MSD1)				**Source: E411061-03**					Prepared: 11/08/24 Analyzed: 11/08/24
Chloride	672	20.0	250	404	108	80-120	1.03	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 10:26

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __1___

| | | |

Envirotech Analytical Laboratory

Printed: 11/7/2024 9:18:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/07/24 07:30	Work Order ID:	E411061
Phone:	(539) 573-4018	Date Logged In:	11/06/24 14:39	Logged In By:	Caitlin Mars
Email:	devon-team@etechenv.com	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411046
Job Number:	01058-0007
Received:	11/6/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/12/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411046
Date Received: 11/6/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/24 16:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 24'	E411046-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 26'	E411046-02A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 28'	E411046-03A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 30'	E411046-04A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 32'	E411046-05A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 34'	E411046-06A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 36'	E411046-07A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 38'	E411046-08A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 40'	E411046-09A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 42'	E411046-10A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 44'	E411046-11A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 46'	E411046-12A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 48'	E411046-13A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 50'	E411046-14A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 24'

E411046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*121 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**2060**	40.0	2	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 26'

E411046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1800**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 28'

E411046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**3140**	40.0	2	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 30'

E411046-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*126 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**3380**	40.0	2	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 32'

E411046-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**3250**	100	5	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 34'

E411046-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1990**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 36'

E411046-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1850**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 38'

E411046-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1780**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 40'

E411046-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1640**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 42'

E411046-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1630**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 44'

E411046-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1580**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 46'

E411046-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*121 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1260**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 48'

E411046-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**1250**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

BH03 50'

E411046-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Benzene	ND	0.0250	1	11/06/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/11/24	
Toluene	ND	0.0250	1	11/06/24	11/11/24	
o-Xylene	ND	0.0250	1	11/06/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445067
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/11/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/06/24*	*11/11/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/06/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/07/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/06/24*	*11/07/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445073
Chloride	**924**	20.0	1	11/06/24	11/06/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445067-BLK1)									Prepared: 11/06/24 Analyzed: 11/11/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.461*		*0.500*		*92.2*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS (2445067-BS1)									Prepared: 11/06/24 Analyzed: 11/11/24
Benzene	2.08	0.0250	2.50		83.3	70-130			
Ethylbenzene	2.05	0.0250	2.50		81.9	70-130			
Toluene	2.09	0.0250	2.50		83.5	70-130			
o-Xylene	2.09	0.0250	2.50		83.7	70-130			
p,m-Xylene	4.18	0.0500	5.00		83.5	70-130			
Total Xylenes	6.27	0.0250	7.50		83.6	70-130			
Surrogate: Bromofluorobenzene	*0.545*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.531*		*0.500*		*106*	*70-130*			
LCS Dup (2445067-BSD1)									Prepared: 11/06/24 Analyzed: 11/11/24
Benzene	2.57	0.0250	2.50		103	70-130	20.9	23	
Ethylbenzene	2.50	0.0250	2.50		99.9	70-130	19.8	27	
Toluene	2.55	0.0250	2.50		102	70-130	20.1	24	
o-Xylene	2.56	0.0250	2.50		102	70-130	20.0	27	
p,m-Xylene	5.11	0.0500	5.00		102	70-130	20.1	27	
Total Xylenes	7.67	0.0250	7.50		102	70-130	20.1	27	
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445067-BLK1)									Prepared: 11/06/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.461*		*0.500*		*92.2*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS (2445067-BS2)									Prepared: 11/06/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: Bromofluorobenzene	*0.546*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.2*	*70-130*			
Surrogate: Toluene-d8	*0.527*		*0.500*		*105*	*70-130*			
LCS Dup (2445067-BSD2)									Prepared: 11/06/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130	8.18	20	
Surrogate: Bromofluorobenzene	*0.552*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.535*		*0.500*		*107*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445075-BLK1)									Prepared: 11/06/24 Analyzed: 11/07/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.8*		*50.0*		*110*	*50-200*			
LCS (2445075-BS1)									Prepared: 11/06/24 Analyzed: 11/07/24
Diesel Range Organics (C10-C28)	271	25.0	250		109	38-132			
Surrogate: n-Nonane	*58.4*		*50.0*		*117*	*50-200*			
LCS Dup (2445075-BSD1)									Prepared: 11/06/24 Analyzed: 11/07/24
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132	3.34	20	
Surrogate: n-Nonane	*55.9*		*50.0*		*112*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/2024 4:23:32PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445073-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	ND	20.0							
LCS (2445073-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2445073-MS1)				**Source: E411046-06**					Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	2230	20.0	250	1990	94.3	80-120			
Matrix Spike Dup (2445073-MSD1)				**Source: E411046-06**					Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	2180	20.0	250	1990	76.3	80-120	2.04	20	M4

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/12/24 16:23

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 2

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 2

| | | |

Envirotech Analytical Laboratory

Printed: 11/6/2024 9:49:43AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/06/24 07:30	Work Order ID:	E411046
Phone:	(575) 200-6754	Date Logged In:	11/05/24 15:04	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/14/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411042
Job Number:	01058-0007
Received:	11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/8/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411042
Date Received: 11/6/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/08/24 14:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 52'	E411042-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.
BH03 54'	E411042-02A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

BH03 52'

E411042-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445058
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane		*87.2 %*	*50-200*	*11/06/24*	*11/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445061
Chloride	**940**	20.0	1	11/06/24	11/06/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

BH03 54'

E411042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445058
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane		*86.3 %*	*50-200*	*11/06/24*	*11/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445061
Chloride	**799**	20.0	1	11/06/24	11/06/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445057-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2445057-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	4.32	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130			
Toluene	4.57	0.0250	5.00		91.4	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.18*		*8.00*		*89.7*	*70-130*			
LCS Dup (2445057-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	4.42	0.0250	5.00		88.4	70-130	2.38	20	
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130	3.54	20	
Toluene	4.71	0.0250	5.00		94.2	70-130	3.06	20	
o-Xylene	4.79	0.0250	5.00		95.9	70-130	3.27	20	
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130	3.60	20	
Total Xylenes	14.5	0.0250	15.0		96.8	70-130	3.49	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.25*		*8.00*		*90.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445057-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.60*		*8.00*		*95.0*	*70-130*			
LCS (2445057-BS2)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.8*	*70-130*			
LCS Dup (2445057-BSD2)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130	1.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445058-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.5*		*50.0*		*89.0*	*50-200*			
LCS (2445058-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132			
Surrogate: n-Nonane	*47.1*		*50.0*		*94.2*	*50-200*			
LCS Dup (2445058-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132	5.28	20	
Surrogate: n-Nonane	*48.0*		*50.0*		*96.0*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 2:00:17PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445061-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	ND	20.0							
LCS (2445061-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2445061-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	250	20.0	250		100	90-110	1.01	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/08/24 14:00

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __1___

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411042 / Job Number 01058-0007
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/ Anion | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	State NM	Remarks
14:20	11.04.24	S	1	BH03	1	52'	X	X	
14:30	11.04.24	S	1	BH03	2	54'	X	X	

11/05/24

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/05/24	6:00	Michelle Gonzales	11-5-24	0600
Michelle Gonzales	11-5-24	1615	[signature]	11.5.24	1730
[signature]	11.5.24	2345	[signature]	11.6.24	7:30

Lab Use Only: Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/6/2024 9:37:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/06/24 07:30	Work Order ID:	E411042
Phone:	(575) 200-6754	Date Logged In:	11/05/24 14:52	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/14/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411041
Job Number:	01058-0007
Received:	11/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/8/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/8/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411041
Date Received: 11/6/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/08/24 13:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 55'	E411041-01A	Soil	11/04/24	11/06/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 1:56:24PM

BH03 55'

E411041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Benzene	ND	0.0250	1	11/06/24	11/06/24	
Ethylbenzene	ND	0.0250	1	11/06/24	11/06/24	
Toluene	ND	0.0250	1	11/06/24	11/06/24	
o-Xylene	ND	0.0250	1	11/06/24	11/06/24	
p,m-Xylene	ND	0.0500	1	11/06/24	11/06/24	
Total Xylenes	ND	0.0250	1	11/06/24	11/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.8 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/24	11/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*11/06/24*	*11/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445058
Diesel Range Organics (C10-C28)	ND	25.0	1	11/06/24	11/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/06/24	11/06/24	
Surrogate: n-Nonane		*88.1 %*	*50-200*	*11/06/24*	*11/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445061
Chloride	**730**	20.0	1	11/06/24	11/06/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 1:56:24PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445057-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2445057-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	4.32	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.61	0.0250	5.00		92.2	70-130			
Toluene	4.57	0.0250	5.00		91.4	70-130			
o-Xylene	4.64	0.0250	5.00		92.8	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.18*		*8.00*		*89.7*	*70-130*			
LCS Dup (2445057-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Benzene	4.42	0.0250	5.00		88.4	70-130	2.38	20	
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130	3.54	20	
Toluene	4.71	0.0250	5.00		94.2	70-130	3.06	20	
o-Xylene	4.79	0.0250	5.00		95.9	70-130	3.27	20	
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130	3.60	20	
Total Xylenes	14.5	0.0250	15.0		96.8	70-130	3.49	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.25*		*8.00*		*90.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 1:56:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445057-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.60*		*8.00*		*95.0*	*70-130*			
LCS (2445057-BS2)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.8*	*70-130*			
LCS Dup (2445057-BSD2)									Prepared: 11/06/24 Analyzed: 11/06/24
Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.1	70-130	1.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 1:56:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445058-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.5*		*50.0*		*89.0*	*50-200*			
LCS (2445058-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	232	25.0	250		92.8	38-132			
Surrogate: n-Nonane	*47.1*		*50.0*		*94.2*	*50-200*			
LCS Dup (2445058-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Diesel Range Organics (C10-C28)	245	25.0	250		97.8	38-132	5.28	20	
Surrogate: n-Nonane	*48.0*		*50.0*		*96.0*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/8/2024 1:56:24PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445061-BLK1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	ND	20.0							
LCS (2445061-BS1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2445061-BSD1)									Prepared: 11/06/24 Analyzed: 11/06/24
Chloride	250	20.0	250		100	90-110	1.01	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/08/24 13:56

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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| | | |

Envirotech Analytical Laboratory

Printed: 11/6/2024 9:33:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/06/24 07:30	Work Order ID:	E411041
Phone:	(575) 200-6754	Date Logged In:	11/05/24 14:43	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/14/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411064
Job Number:	01058-0007
Received:	11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411064
Date Received: 11/7/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Field Offices:

Southern New Mexico Area

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 09:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 20'	E411064-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 22'	E411064-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 24'	E411064-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 26'	E411064-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 28'	E411064-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 30'	E411064-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 32'	E411064-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 34'	E411064-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 36'	E411064-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 38'	E411064-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 40'	E411064-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 42'	E411064-12A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 44'	E411064-13A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 46'	E411064-14A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 48'	E411064-15A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 50'	E411064-16A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 52'	E411064-17A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 54'	E411064-18A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH04 55'	E411064-19A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 20'

E411064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*85.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*124 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**2960**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 22'

E411064-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*85.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**2680**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 24'

E411064-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0500	2	11/07/24	11/11/24	
Ethylbenzene	ND	0.0500	2	11/07/24	11/11/24	
Toluene	ND	0.0500	2	11/07/24	11/11/24	
o-Xylene	ND	0.0500	2	11/07/24	11/11/24	
p,m-Xylene	ND	0.100	2	11/07/24	11/11/24	
Total Xylenes	ND	0.0500	2	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*86.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	40.0	2	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*123 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**3630**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 26'

E411064-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0500	2	11/07/24	11/11/24	
Ethylbenzene	ND	0.0500	2	11/07/24	11/11/24	
Toluene	ND	0.0500	2	11/07/24	11/11/24	
o-Xylene	ND	0.0500	2	11/07/24	11/11/24	
p,m-Xylene	ND	0.100	2	11/07/24	11/11/24	
Total Xylenes	ND	0.0500	2	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	40.0	2	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**3350**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 28'

E411064-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**3170**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 30'

E411064-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**2950**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 32'

E411064-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**3310**	40.0	2	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 34'

E411064-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**2120**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 36'

E411064-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1900**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 38'

E411064-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1790**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 40'

E411064-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1570**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 42'

E411064-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1640**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 44'

E411064-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1530**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 46'

E411064-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1380**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 48'

E411064-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1360**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 50'

E411064-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/13/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/07/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**1140**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 52'

E411064-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.9 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**855**	20.0	1	11/08/24	11/10/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 54'

E411064-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**792**	20.0	1	11/08/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

BH04 55'

E411064-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.1 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2445095
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2445104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445141
Chloride	**816**	20.0	1	11/08/24	11/11/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445095-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.50*		*8.00*		*81.3*	*70-130*			
LCS (2445095-BS1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	4.73	0.0250	5.00		94.6	70-130			
Ethylbenzene	4.55	0.0250	5.00		90.9	70-130			
Toluene	4.66	0.0250	5.00		93.2	70-130			
o-Xylene	4.49	0.0250	5.00		89.8	70-130			
p,m-Xylene	9.23	0.0500	10.0		92.3	70-130			
Total Xylenes	13.7	0.0250	15.0		91.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.77*		*8.00*		*84.6*	*70-130*			
LCS Dup (2445095-BSD1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	5.02	0.0250	5.00		100	70-130	5.92	20	
Ethylbenzene	4.87	0.0250	5.00		97.3	70-130	6.83	20	
Toluene	4.96	0.0250	5.00		99.3	70-130	6.30	20	
o-Xylene	4.81	0.0250	5.00		96.2	70-130	6.92	20	
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130	6.83	20	
Total Xylenes	14.7	0.0250	15.0		97.9	70-130	6.86	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.74*		*8.00*		*84.3*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445095-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.1*	*70-130*			
LCS (2445095-BS2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.7*	*70-130*			
LCS Dup (2445095-BSD2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.5	70-130	1.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.7*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445104-BLK1)									Prepared: 11/07/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.0*		*50.0*		*104*	*50-200*			
LCS (2445104-BS1)									Prepared: 11/07/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132			
Surrogate: n-Nonane	*61.4*		*50.0*		*123*	*50-200*			
LCS Dup (2445104-BSD1)									Prepared: 11/07/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132	3.78	20	
Surrogate: n-Nonane	*58.4*		*50.0*		*117*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 9:54:04AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445141-BLK1)									Prepared: 11/08/24 Analyzed: 11/10/24
Chloride	ND	20.0							
LCS (2445141-BS1)									Prepared: 11/08/24 Analyzed: 11/10/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2445141-MS1)				**Source: E411064-08**					Prepared: 11/08/24 Analyzed: 11/10/24
Chloride	2390	20.0	250	2120	108	80-120			
Matrix Spike Dup (2445141-MSD1)				**Source: E411064-08**					Prepared: 11/08/24 Analyzed: 11/10/24
Chloride	2430	20.0	250	2120	123	80-120	1.61	20	M4

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 09:54

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 2

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 2

| | | |

Envirotech Analytical Laboratory

Printed: 11/7/2024 9:34:55AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/07/24 07:30	Work Order ID:	E411064
Phone:	(539) 573-4018	Date Logged In:	11/06/24 15:09	Logged In By:	Caitlin Mars
Email:	devon-team@etechenv.com	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411066
Job Number:	01058-0007
Received:	11/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411066
Date Received: 11/7/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2024 7:30:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 13:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 16'	E411066-01A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 18'	E411066-02A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 20'	E411066-03A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 22'	E411066-04A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 24'	E411066-05A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 26'	E411066-06A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 28'	E411066-07A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 30'	E411066-08A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 32'	E411066-09A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 34'	E411066-10A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 36'	E411066-11A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 38'	E411066-12A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 40'	E411066-13A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 42'	E411066-14A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 44'	E411066-15A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 46'	E411066-16A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 48'	E411066-17A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 50'	E411066-18A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 52'	E411066-19A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 54'	E411066-20A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.
BH05 55'	E411066-21A	Soil	11/05/24	11/07/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 16'

E411066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1940**	200	10	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 18'

E411066-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.4 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2060**	200	10	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 20'

E411066-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.5 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*87.0 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1900**	200	10	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 22'

E411066-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1970**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 24'

E411066-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2290**	100	5	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 26'

E411066-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2810**	40.0	2	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 28'

E411066-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2650**	100	5	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 30'

E411066-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2760**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 32'

E411066-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2280**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 34'

E411066-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2330**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 36'

E411066-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.7 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1980**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 38'

E411066-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.5 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2410**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 40'

E411066-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1970**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 42'

E411066-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2480**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 44'

E411066-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**2310**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 46'

E411066-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/08/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/08/24	
Toluene	ND	0.0250	1	11/07/24	11/08/24	
o-Xylene	ND	0.0250	1	11/07/24	11/08/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/08/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*11/07/24*	*11/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1340**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 48'

E411066-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1490**	20.0	1	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 50'

E411066-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1350**	40.0	2	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 52'

E411066-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**1470**	40.0	2	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 54'

E411066-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Benzene	ND	0.0250	1	11/07/24	11/09/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/09/24	
Toluene	ND	0.0250	1	11/07/24	11/09/24	
o-Xylene	ND	0.0250	1	11/07/24	11/09/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/09/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/07/24*	*11/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445126
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/09/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/07/24*	*11/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2445149
Chloride	**453**	40.0	2	11/09/24	11/11/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

BH05 55'

E411066-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445111
Benzene	ND	0.0250	1	11/07/24	11/11/24	
Ethylbenzene	ND	0.0250	1	11/07/24	11/11/24	
Toluene	ND	0.0250	1	11/07/24	11/11/24	
o-Xylene	ND	0.0250	1	11/07/24	11/11/24	
p,m-Xylene	ND	0.0500	1	11/07/24	11/11/24	
Total Xylenes	ND	0.0250	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*80.0 %*	*70-130*	*11/07/24*	*11/11/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445111
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/24	11/11/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/07/24*	*11/11/24*	
Surrogate: 1,2-Dichloroethane-d4		*80.0 %*	*70-130*	*11/07/24*	*11/11/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/07/24*	*11/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2445125
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/24	11/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/24	11/08/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/07/24*	*11/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**1450**	100	5	11/11/24	11/15/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445111-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
LCS (2445111-BS1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	2.22	0.0250	2.50		88.9	70-130			
Ethylbenzene	2.44	0.0250	2.50		97.7	70-130			
Toluene	2.34	0.0250	2.50		93.8	70-130			
o-Xylene	2.45	0.0250	2.50		98.1	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.4	70-130			
Total Xylenes	7.37	0.0250	7.50		98.3	70-130			
Surrogate: Bromofluorobenzene	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.510*		*0.500*		*102*	*70-130*			
LCS Dup (2445111-BSD1)									Prepared: 11/07/24 Analyzed: 11/11/24
Benzene	2.32	0.0250	2.50		92.9	70-130	4.36	23	
Ethylbenzene	2.56	0.0250	2.50		102	70-130	4.58	27	
Toluene	2.47	0.0250	2.50		98.9	70-130	5.38	24	
o-Xylene	2.59	0.0250	2.50		104	70-130	5.53	27	
p,m-Xylene	5.27	0.0500	5.00		105	70-130	6.95	27	
Total Xylenes	7.87	0.0250	7.50		105	70-130	6.48	27	
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445097-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.7*	*70-130*			
LCS (2445097-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.16	0.0250	5.00		103	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.1*	*70-130*			
LCS Dup (2445097-BSD1)									Prepared: 11/07/24 Analyzed: 11/08/24
Benzene	4.63	0.0250	5.00		92.6	70-130	11.9	20	
Ethylbenzene	4.49	0.0250	5.00		89.9	70-130	12.1	20	
Toluene	4.57	0.0250	5.00		91.4	70-130	12.1	20	
o-Xylene	4.51	0.0250	5.00		90.2	70-130	11.5	20	
p,m-Xylene	9.17	0.0500	10.0		91.7	70-130	11.9	20	
Total Xylenes	13.7	0.0250	15.0		91.2	70-130	11.7	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.80*		*8.00*		*97.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445097-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.34*		*8.00*		*91.7*	*70-130*			
LCS (2445097-BS2)									Prepared: 11/07/24 Analyzed: 11/08/24
Gasoline Range Organics (C6-C10)	40.9	20.0	50.0		81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.42*		*8.00*		*92.7*	*70-130*			
LCS Dup (2445097-BSD2)									Prepared: 11/07/24 Analyzed: 11/08/24
Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.1	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445111-BLK1)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
LCS (2445111-BS2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.471*		*0.500*		*94.1*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			
LCS Dup (2445111-BSD2)									Prepared: 11/07/24 Analyzed: 11/11/24
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130	2.75	20	
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.8*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445125-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.9*		*50.0*		*85.9*	*50-200*			
LCS (2445125-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	*48.9*		*50.0*		*97.7*	*50-200*			
LCS Dup (2445125-BSD1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132	3.89	20	
Surrogate: n-Nonane	*48.2*		*50.0*		*96.4*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445126-BLK1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.2*		*50.0*		*100*	*50-200*			
LCS (2445126-BS1)									Prepared: 11/07/24 Analyzed: 11/08/24
Diesel Range Organics (C10-C28)	250	25.0	250		99.8	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.5*	*50-200*			
LCS Dup (2445126-BSD1)									Prepared: 11/07/24 Analyzed: 11/09/24
Diesel Range Organics (C10-C28)	246	25.0	250		98.6	38-132	1.26	20	
Surrogate: n-Nonane	*48.4*		*50.0*		*96.8*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445149-BLK1)									Prepared: 11/09/24 Analyzed: 11/11/24
Chloride	ND	20.0							
LCS (2445149-BS1)									Prepared: 11/09/24 Analyzed: 11/11/24
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2445149-MS1)				**Source: E411066-05**					Prepared: 11/09/24 Analyzed: 11/11/24
Chloride	2980	100	250	2290	275	80-120			M4
Matrix Spike Dup (2445149-MSD1)				**Source: E411066-05**					Prepared: 11/09/24 Analyzed: 11/11/24
Chloride	2940	100	250	2290	259	80-120	1.34	20	M4

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:46:21PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446028-BLK1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	ND	20.0							
LCS (2446028-BS1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446028-BSD1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110	0.164	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 13:46

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E4110646	Job Number 01058.0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	1D 2D 3D Standard: 5 day TAT	CWA SDWA RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method	State: NM CO UT AZ TX
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
	Incident ID: nAB1614039576 and nAB1616628496		
Collected by: Edyte Konan			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
14:40	11.05.24	S	1	BH05	1	16'								X				
14:50	11.05.24	S	1	BH05	2	18'								X				
15:00	11.05.24	S	1	BH05	3	20'								X				
15:10	11.05.24	S	1	BH05	4	22'								X				
15:20	11.05.24	S	1	BH05	5	24'								X				
15:30	11.05.24	S	1	BH05	6	26'								X				
15:40	11.05.24	S	1	BH05	7	28'								X				
15:50	11.05.24	S	1	BH05	8	30'								X				
16:00	11.05.24	S	1	BH05	9	32'								X				
16:10	11.05.24	S	1	BH05	10	34'								X				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Edyte~~	11/06/24	6:00	Michelle Gonzales	11.6.24	0600
Michelle Gonzales	11-6-24	1630		11.6.24	1800
Andrew M.	11.7.24	0600	Rachel Schwanz	11/7/24	7:30

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

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

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

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

envirotech

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 3 of 3

| | | |

Envirotech Analytical Laboratory

Printed: 11/7/2024 9:43:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/07/24 07:30	Work Order ID:	E411066
Phone:	(539) 573-4018	Date Logged In:	11/06/24 15:17	Logged In By:	Caitlin Mars
Email:	devon-team@etechenv.com	Due Date:	11/15/24 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411087
Job Number:	01058-0007
Received:	11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411087
Date Received: 11/9/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 14:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 4'	E411087-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 6'	E411087-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 8'	E411087-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 10'	E411087-04A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 12'	E411087-05A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 14'	E411087-06A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 16'	E411087-07A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 18'	E411087-08A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 20'	E411087-09A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 22'	E411087-10A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 24'	E411087-11A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 26'	E411087-12A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 28'	E411087-13A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 30'	E411087-14A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 32'	E411087-15A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 34'	E411087-16A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 36'	E411087-17A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 38'	E411087-18A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 40'	E411087-19A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 42'	E411087-20A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 44'	E411087-21A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 46'	E411087-22A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 48'	E411087-23A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 4'

E411087-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1330**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 6'

E411087-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1320**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 8'

E411087-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1540**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 10'

E411087-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1800**	40.0	2	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 12'

E411087-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1670**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 14'

E411087-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1760**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 16'

E411087-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1460**	100	5	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 18'

E411087-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0500	2	11/11/24	11/14/24	
Ethylbenzene	ND	0.0500	2	11/11/24	11/14/24	
Toluene	ND	0.0500	2	11/11/24	11/14/24	
o-Xylene	ND	0.0500	2	11/11/24	11/14/24	
p,m-Xylene	ND	0.100	2	11/11/24	11/14/24	
Total Xylenes	ND	0.0500	2	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	40.0	2	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1880**	40.0	2	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 20'

E411087-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*98.4 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1160**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 22'

E411087-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**933**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 24'

E411087-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**2040**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 26'

E411087-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**2090**	100	5	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 28'

E411087-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1870**	100	5	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 30'

E411087-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1930**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 32'

E411087-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1750**	40.0	2	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 34'

E411087-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1640**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 36'

E411087-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*99.4 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1550**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 38'

E411087-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/15/24	
Toluene	ND	0.0250	1	11/11/24	11/15/24	
o-Xylene	ND	0.0250	1	11/11/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1470**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 40'

E411087-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/15/24	
Toluene	ND	0.0250	1	11/11/24	11/15/24	
o-Xylene	ND	0.0250	1	11/11/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1510**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 42'

E411087-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Benzene	ND	0.0250	1	11/11/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/15/24	
Toluene	ND	0.0250	1	11/11/24	11/15/24	
o-Xylene	ND	0.0250	1	11/11/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.5 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446026
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446042
Chloride	**1620**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 44'

E411087-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Benzene	ND	0.0250	1	11/11/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/17/24	
Toluene	ND	0.0250	1	11/11/24	11/17/24	
o-Xylene	ND	0.0250	1	11/11/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*85.0 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446027
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/13/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**1560**	20.0	1	11/11/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 46'

E411087-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Benzene	ND	0.0250	1	11/11/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/17/24	
Toluene	ND	0.0250	1	11/11/24	11/17/24	
o-Xylene	ND	0.0250	1	11/11/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*84.4 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446027
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/13/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/11/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**1100**	20.0	1	11/11/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

BH06 48'

E411087-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Benzene	ND	0.0250	1	11/11/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/17/24	
Toluene	ND	0.0250	1	11/11/24	11/17/24	
o-Xylene	ND	0.0250	1	11/11/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*84.6 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446002
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*11/11/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446027
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/13/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/11/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**932**	20.0	1	11/11/24	11/16/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446002-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.90*		*8.00*		*98.7*	*70-130*			
LCS (2446002-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.97*		*8.00*		*99.7*	*70-130*			
LCS Dup (2446002-BSD1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	5.14	0.0250	5.00		103	70-130	1.71	20	
Ethylbenzene	5.01	0.0250	5.00		100	70-130	1.61	20	
Toluene	5.10	0.0250	5.00		102	70-130	1.67	20	
o-Xylene	5.01	0.0250	5.00		100	70-130	1.68	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	1.61	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	1.63	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.92*		*8.00*		*99.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446012-BLK1)									Prepared: 11/11/24 Analyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.96*		*8.00*		*99.6*	*70-130*			
LCS (2446012-BS1)									Prepared: 11/11/24 Analyzed: 11/15/24
Benzene	4.20	0.0250	5.00		84.0	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130			
Toluene	4.23	0.0250	5.00		84.7	70-130			
o-Xylene	4.29	0.0250	5.00		85.8	70-130			
p,m-Xylene	8.52	0.0500	10.0		85.2	70-130			
Total Xylenes	12.8	0.0250	15.0		85.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.94*		*8.00*		*99.3*	*70-130*			
LCS Dup (2446012-BSD1)									Prepared: 11/11/24 Analyzed: 11/15/24
Benzene	4.51	0.0250	5.00		90.2	70-130	7.06	20	
Ethylbenzene	4.49	0.0250	5.00		89.7	70-130	7.34	20	
Toluene	4.56	0.0250	5.00		91.1	70-130	7.31	20	
o-Xylene	4.61	0.0250	5.00		92.1	70-130	7.11	20	
p,m-Xylene	9.16	0.0500	10.0		91.6	70-130	7.24	20	
Total Xylenes	13.8	0.0250	15.0		91.8	70-130	7.20	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.96*		*8.00*		*99.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446002-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.4*	*70-130*			
LCS (2446002-BS2)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS Dup (2446002-BSD2)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.1	70-130	3.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.54*		*8.00*		*94.3*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446012-BLK1)									Prepared: 11/11/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2446012-BS2)									Prepared: 11/11/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	36.6	20.0	50.0		73.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*8.00*		*93.1*	*70-130*			
LCS Dup (2446012-BSD2)									Prepared: 11/11/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	38.2	20.0	50.0		76.3	70-130	4.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.43*		*8.00*		*92.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446026-BLK1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			
LCS (2446026-BS1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	*54.4*		*50.0*		*109*	*50-200*			
Matrix Spike (2446026-MS1)				**Source: E411087-09**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	*57.9*		*50.0*		*116*	*50-200*			
Matrix Spike Dup (2446026-MSD1)				**Source: E411087-09**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132	0.752	20	
Surrogate: n-Nonane	*55.5*		*50.0*		*111*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446027-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.6*		*50.0*		*101*	*50-200*			
LCS (2446027-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			
Matrix Spike (2446027-MS1)				**Source: E411086-05**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	*52.9*		*50.0*		*106*	*50-200*			
Matrix Spike Dup (2446027-MSD1)				**Source: E411086-05**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	3.11	20	
Surrogate: n-Nonane	*55.2*		*50.0*		*110*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446028-BLK1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	ND	20.0							
LCS (2446028-BS1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446028-BSD1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110	0.164	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 2:17:57PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446042-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446042-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2446042-MS1)				**Source: E411087-07**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	1750	100	250	1460	117	80-120			
Matrix Spike Dup (2446042-MSD1)				**Source: E411087-07**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	1690	100	250	1460	95.0	80-120	3.23	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 14:17

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411087 Job Number 01058-0007
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/ Anion | BGDOC NM | | GDOC TX | | Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
8:00	11.06.24	S	1	BH06	1	4'	x	x	
8:10	11.06.24	S	1	BH06	2	6'	x	x	
8:20	11.06.24	S	1	BH06	3	8'	x	x	
8:30	11.06.24	S	1	BH06	4	10'	x	x	
8:40	11.06.24	S	1	BH06	5	12'	x	x	
8:50	11.06.24	S	1	BH06	6	14'	x	x	
9:00	11.06.24	S	1	BH06	7	16'	x	x	
9:10	11.06.24	S	1	BH06	8	18'	x	x	
9:20	11.06.24	S	1	BH06	9	20'	x	x	
9:30	11.06.24	S	1	BH06	10	22'	x	x	

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/07/24	6:00	Michelle Gonzales	11-7-24	0600
Michelle Gonzales	11-8-24	1645	[signature]	11.8.24	1648
[signature]	2234	11.8.24	[signature]	11.9.24	10:00

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

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

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

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

envirotech

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411087 / Job Number 01058.0027
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496	

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
11:20	11.06.24	S	1	BH06	21	44'								X				
11:30	11.06.24	S	1	BH06	22	46'								X				
11:40	11.06.24	S	1	BH06	23	48'								X				

11/07/24

Additional Instructions:

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

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

	Date	Time		Date	Time
Relinquished by: (Signature)	11/07/24	6:00	Received by: (Signature) Michelle Gonzales	11-7-24	0600
Relinquished by: (Signature) Michelle Gonzales	11-8-24	1645	Received by: (Signature)	11-8-24	1640
Relinquished by: (Signature)	11-8-24	2335	Received by: (Signature)	11.9.24	10:00

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/11/2024 10:36:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411087
Phone:	(575) 200-6754	Date Logged In:	11/08/24 12:28	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411077
Job Number:	01058-0007
Received:	11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/14/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411077
Date Received: 11/9/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/24 08:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 50'	E411077-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 52'	E411077-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 54'	E411077-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH06 55'	E411077-04A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

BH06 50'

E411077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**831**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

BH06 52'

E411077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**808**	20.0	1	11/12/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

BH06 54'

E411077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**678**	20.0	1	11/12/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

BH06 55'

E411077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**477**	20.0	1	11/12/24	11/13/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.25	0.0250	2.50		90.2	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.49	0.0250	2.50		99.7	70-130			
p,m-Xylene	5.02	0.0500	5.00		100	70-130			
Total Xylenes	7.51	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	*0.479*		*0.500*		*95.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
Matrix Spike (2445135-MS1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.34	0.0250	2.50	ND	93.7	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.50	0.0250	2.50	ND	100	48-130			
o-Xylene	2.71	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135			
Total Xylenes	8.16	0.0250	7.50	ND	109	43-135			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2445135-MSD1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.28	0.0250	2.50	ND	91.3	48-131	2.66	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	1.88	27	
Toluene	2.47	0.0250	2.50	ND	98.6	48-130	1.35	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	4.38	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	4.13	27	
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135	4.21	27	
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS2)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike (2445135-MS2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
Matrix Spike Dup (2445135-MSD2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130	8.44	20	
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.524*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446016-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
LCS (2446016-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			
Matrix Spike (2446016-MS1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.5*	*50-200*			
Matrix Spike Dup (2446016-MSD1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	3.01	20	
Surrogate: n-Nonane	*49.3*		*50.0*		*98.6*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/2024 8:26:21AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446056-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446056-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2446056-MS1)				**Source: E411101-04**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2446056-MSD1)				**Source: E411101-04**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	248	20.0	250	ND	99.2	80-120	3.13	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/14/24 08:26

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __1___

| | | |

Envirotech Analytical Laboratory

Printed: 11/11/2024 9:50:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411077
Phone:	(575) 200-6754	Date Logged In:	11/07/24 16:44	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411078
Job Number:	01058-0007
Received:	11/9/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411078
Date Received: 11/9/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 16:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 10'	E411078-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 12'	E411078-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 14'	E411078-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 16'	E411078-04A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 18'	E411078-05A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 20'	E411078-06A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 22'	E411078-07A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 24'	E411078-08A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 26'	E411078-09A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 28'	E411078-10A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 30'	E411078-11A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 32'	E411078-12A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 34'	E411078-13A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 36'	E411078-14A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 38'	E411078-15A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 40'	E411078-16A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 42'	E411078-17A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 44'	E411078-18A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 46'	E411078-19A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 48'	E411078-20A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 50'	E411078-21A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 52'	E411078-22A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 54'	E411078-23A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH07 55'	E411078-24A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 10'

E411078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**716**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 12'

E411078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**847**	200	10	11/12/24	11/12/24	

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411084
Job Number:	01058-0007
Received:	11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/15/24

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Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/15/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411084
Date Received: 11/9/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 11:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 10'	E411084-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 12'	E411084-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 14'	E411084-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 16'	E411084-04A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 18'	E411084-05A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 20'	E411084-06A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 22'	E411084-07A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 24'	E411084-08A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 26'	E411084-09A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 28'	E411084-10A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 30'	E411084-11A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 32'	E411084-12A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 34'	E411084-13A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 36'	E411084-14A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 38'	E411084-15A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 40'	E411084-16A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 42'	E411084-17A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 44'	E411084-18A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 46'	E411084-19A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 48'	E411084-20A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 50'	E411084-21A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 10'

E411084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**454**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 12'

E411084-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**434**	100	5	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 14'

E411084-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**419**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 16'

E411084-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**440**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 18'

E411084-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**433**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 20'

E411084-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*95.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*95.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**476**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 22'

E411084-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*95.7 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**585**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 24'

E411084-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*95.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**637**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 26'

E411084-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.2 %*	*70-130*	*11/11/24*	*11/13/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**993**	40.0	2	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 28'

E411084-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**596**	40.0	2	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 30'

E411084-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**600**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 32'

E411084-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**528**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 34'

E411084-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**665**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 36'

E411084-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*98.3 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**562**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 38'

E411084-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.8 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.8 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*96.1 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**803**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 40'

E411084-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**902**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 42'

E411084-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**721**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 44'

E411084-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*99.5 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**888**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 46'

E411084-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*95.9 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**787**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 48'

E411084-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: Bromofluorobenzene		*96.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*11/11/24*	*11/14/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446019
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*95.5 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446054
Chloride	**661**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

BH08 50'

E411084-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2446002
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	**0.0375**	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2446002
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446067
Chloride	**591**	20.0	1	11/12/24	11/12/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446003-BLK1)									Prepared: 11/11/24 Analyzed: 11/13/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			
LCS (2446003-BS1)									Prepared: 11/11/24 Analyzed: 11/13/24
Benzene	2.14	0.0250	2.50		85.8	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.47	0.0250	2.50		99.0	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.3	70-130			
Total Xylenes	7.39	0.0250	7.50		98.5	70-130			
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			
LCS Dup (2446003-BSD1)									Prepared: 11/11/24 Analyzed: 11/13/24
Benzene	2.27	0.0250	2.50		90.7	70-130	5.64	23	
Ethylbenzene	2.53	0.0250	2.50		101	70-130	5.00	27	
Toluene	2.37	0.0250	2.50		94.9	70-130	3.56	24	
o-Xylene	2.65	0.0250	2.50		106	70-130	7.02	27	
p,m-Xylene	5.30	0.0500	5.00		106	70-130	7.51	27	
Total Xylenes	7.95	0.0250	7.50		106	70-130	7.35	27	
Surrogate: Bromofluorobenzene	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446002-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.90*		*8.00*		*98.7*	*70-130*			
LCS (2446002-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.97*		*8.00*		*99.7*	*70-130*			
LCS Dup (2446002-BSD1)									Prepared: 11/11/24 Analyzed: 11/12/24
Benzene	5.14	0.0250	5.00		103	70-130	1.71	20	
Ethylbenzene	5.01	0.0250	5.00		100	70-130	1.61	20	
Toluene	5.10	0.0250	5.00		102	70-130	1.67	20	
o-Xylene	5.01	0.0250	5.00		100	70-130	1.68	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	1.61	20	
Total Xylenes	15.2	0.0250	15.0		101	70-130	1.63	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.92*		*8.00*		*99.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446002-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.4*	*70-130*			
LCS (2446002-BS2)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS Dup (2446002-BSD2)									Prepared: 11/11/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.1	70-130	3.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.54*		*8.00*		*94.3*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446003-BLK1)									Prepared: 11/11/24 Analyzed: 11/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			
LCS (2446003-BS2)									Prepared: 11/11/24 Analyzed: 11/13/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.4	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.464*		*0.500*		*92.8*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS Dup (2446003-BSD2)									Prepared: 11/11/24 Analyzed: 11/13/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130	7.34	20	
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.505*		*0.500*		*101*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446016-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
LCS (2446016-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			
Matrix Spike (2446016-MS1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.5*	*50-200*			
Matrix Spike Dup (2446016-MSD1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	3.01	20	
Surrogate: n-Nonane	*49.3*		*50.0*		*98.6*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446019-BLK1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.9*		*50.0*		*106*	*50-200*			
LCS (2446019-BS1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	*50.9*		*50.0*		*102*	*50-200*			
Matrix Spike (2446019-MS1)				**Source: E411084-07**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*56.2*		*50.0*		*112*	*50-200*			
Matrix Spike Dup (2446019-MSD1)				**Source: E411084-07**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	5.18	20	
Surrogate: n-Nonane	*51.9*		*50.0*		*104*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446054-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446054-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	246	20.0	250		98.2	90-110			
Matrix Spike (2446054-MS1)				**Source: E411084-06**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	812	200	250	476	135	80-120			M5
Matrix Spike Dup (2446054-MSD1)				**Source: E411084-06**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	639	200	250	476	65.4	80-120	23.8	20	M5

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 11:52:04AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446067-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446067-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	230	20.0	250		91.9	90-110			
Matrix Spike (2446067-MS1)				**Source: E411120-02**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	234	20.0	250	ND	93.4	80-120			
Matrix Spike Dup (2446067-MSD1)				**Source: E411120-02**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	234	20.0	250	ND	93.5	80-120	0.0817	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 11:52

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411084	Job Number 10058.0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.		1D 2D 3D Standard: 5 day TAT; CWA SDWA RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
	Incident ID: nAB1614039576 and nAB1616628496		
Collected by: Edyte Konan			

Analysis and Method: TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; TDS; Cation/ Anion; BGDOC NM; GDOC TX

State: NM x; CO; UT; AZ; TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	Remarks
16:25	11.06.24	S	1	BH08	1	10'	X	
16:30	11.06.24	S	1	BH08	2	12'	X	
16:35	11.06.24	S	1	BH08	3	14'	X	
16:40	11.06.24	S	1	BH08	4	16'	X	
16:45	11.06.24	S	1	BH08	5	18'	X	
16:50	11.06.24	S	1	BH08	6	20'	X	
16:55	11.06.24	S	1	BH08	7	22'	X	
17:00	11.06.24	S	1	BH08	8	24'	X	
17:05	11.06.24	S	1	BH08	9	26'	X	
17:10	11.06.24	S	1	BH08	10	28'	X	

Additional Instructions:

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

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

	Date	Time		Date	Time
Relinquished by: (Signature)	11/07/24	6:00	Received by: (Signature) Michelle Gonzales	11-7-24	0600
Relinquished by: (Signature) Michelle Gonzales	11-8-24	1645	Received by: (Signature)	11.8.24	1641
Relinquished by: (Signature)	11.8.24	2236	Received by: (Signature)	11.9.24	10:00

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

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

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

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

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 2 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411084	Job Number 01058.0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	1D 2D 3D Standard: 5 day TAT	CWA / SDWA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		State: NM CO UT AZ TX
Email: Devon-team@etechenv.com	WO: 21255735		
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496		

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
18:05	11.06.24	S	1	BH08	21	50'								X				

11/07/24

Additional Instructions:

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

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

	Date	Time		Date	Time
Relinquished by: (Signature) [illegible]	11/07/24	6:00	Received by: (Signature) Michelle Gonzales	11-7-24	0600
Relinquished by: (Signature) Michelle Gonzales	11-8-24	1645	Received by: (Signature)	11-8-24	1641
Relinquished by: (Signature)	11-8-24	2235	Received by: (Signature) Cath Mar	11.9.24	10:00

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/11/2024 10:10:10AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411084
Phone:	(575) 200-6754	Date Logged In:	11/08/24 11:55	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411076
Job Number:	01058-0007
Received:	11/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411076
Date Received: 11/9/2024 10:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2024 10:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Office: 505-632-1881
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mgonzales@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 13:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 52'	E411076-01A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 54'	E411076-02A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.
BH08 55'	E411076-03A	Soil	11/06/24	11/09/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

BH08 52'

E411076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**235**	20.0	1	11/11/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

BH08 54'

E411076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*98.5 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**232**	20.0	1	11/11/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

BH08 55'

E411076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*98.4 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446028
Chloride	**162**	20.0	1	11/11/24	11/16/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.25	0.0250	2.50		90.2	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.49	0.0250	2.50		99.7	70-130			
p,m-Xylene	5.02	0.0500	5.00		100	70-130			
Total Xylenes	7.51	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	*0.479*		*0.500*		*95.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
Matrix Spike (2445135-MS1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.34	0.0250	2.50	ND	93.7	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.50	0.0250	2.50	ND	100	48-130			
o-Xylene	2.71	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135			
Total Xylenes	8.16	0.0250	7.50	ND	109	43-135			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2445135-MSD1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.28	0.0250	2.50	ND	91.3	48-131	2.66	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	1.88	27	
Toluene	2.47	0.0250	2.50	ND	98.6	48-130	1.35	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	4.38	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	4.13	27	
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135	4.21	27	
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS2)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike (2445135-MS2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
Matrix Spike Dup (2445135-MSD2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130	8.44	20	
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.524*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446016-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
LCS (2446016-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			
Matrix Spike (2446016-MS1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.5*	*50-200*			
Matrix Spike Dup (2446016-MSD1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	3.01	20	
Surrogate: n-Nonane	*49.3*		*50.0*		*98.6*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 1:59:04PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446028-BLK1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	ND	20.0							
LCS (2446028-BS1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446028-BSD1)									Prepared: 11/11/24 Analyzed: 11/15/24
Chloride	257	20.0	250		103	90-110	0.164	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 13:59

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __1___

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411076 / Job Number 01058.0007
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/ Anion | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
18:10	11.06.24	S	1	BH08	1	52'	X		
18:15	11.06.24	S	1	BH08	2	54'	X		
18:20	11.06.24	S	1	BH08	3	55'	X		

11/07/2024

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/07/24	6:00	Michelle Gonzales	11-7-24	0600
Michelle Gonzales	11-8-24	1645	[signature]	11.8.24	1641
[signature]	11.8.24	2236	Cartha Mar	11.9.24	10:00

Lab Use Only — Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/11/2024 9:40:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411076
Phone:	(575) 200-6754	Date Logged In:	11/07/24 16:38	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 14'

E411078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.7 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1300**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 16'

E411078-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1320**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 18'

E411078-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1320**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 20'

E411078-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.4 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1310**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 22'

E411078-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1060**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 24'

E411078-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1060**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 26'

E411078-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/15/24	
Toluene	ND	0.0250	1	11/11/24	11/15/24	
o-Xylene	ND	0.0250	1	11/11/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1240**	200	10	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 28'

E411078-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1750**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 30'

E411078-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/11/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/11/24*	*11/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**2010**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 32'

E411078-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1850**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 34'

E411078-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1390**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 36'

E411078-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**1200**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 38'

E411078-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/13/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/13/24	
Toluene	ND	0.0250	1	11/11/24	11/13/24	
o-Xylene	ND	0.0250	1	11/11/24	11/13/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/13/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/11/24*	*11/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**737**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 40'

E411078-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**677**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 42'

E411078-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**672**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 44'

E411078-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**633**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 46'

E411078-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**928**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 48'

E411078-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Benzene	ND	0.0250	1	11/11/24	11/14/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/14/24	
Toluene	ND	0.0250	1	11/11/24	11/14/24	
o-Xylene	ND	0.0250	1	11/11/24	11/14/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/14/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.3 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2445134
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/11/24*	*11/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446010
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446045
Chloride	**868**	20.0	1	11/12/24	11/12/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 50'

E411078-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**908**	20.0	1	11/12/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 52'

E411078-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.7 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*98.7 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**825**	20.0	1	11/12/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 54'

E411078-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**808**	20.0	1	11/12/24	11/13/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

BH07 55'

E411078-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Benzene	ND	0.0250	1	11/11/24	11/12/24	
Ethylbenzene	ND	0.0250	1	11/11/24	11/12/24	
Toluene	ND	0.0250	1	11/11/24	11/12/24	
o-Xylene	ND	0.0250	1	11/11/24	11/12/24	
p,m-Xylene	ND	0.0500	1	11/11/24	11/12/24	
Total Xylenes	ND	0.0250	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2445135
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/11/24	11/12/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*	*70-130*	*11/11/24*	*11/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/11/24*	*11/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446016
Diesel Range Organics (C10-C28)	ND	25.0	1	11/11/24	11/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/11/24	11/12/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/11/24*	*11/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2446056
Chloride	**376**	20.0	1	11/12/24	11/13/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS1)									Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.25	0.0250	2.50		90.2	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.49	0.0250	2.50		99.7	70-130			
p,m-Xylene	5.02	0.0500	5.00		100	70-130			
Total Xylenes	7.51	0.0250	7.50		100	70-130			
Surrogate: Bromofluorobenzene	*0.479*		*0.500*		*95.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
Matrix Spike (2445135-MS1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.34	0.0250	2.50	ND	93.7	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.50	0.0250	2.50	ND	100	48-130			
o-Xylene	2.71	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135			
Total Xylenes	8.16	0.0250	7.50	ND	109	43-135			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2445135-MSD1)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Benzene	2.28	0.0250	2.50	ND	91.3	48-131	2.66	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	1.88	27	
Toluene	2.47	0.0250	2.50	ND	98.6	48-130	1.35	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	4.38	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	4.13	27	
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135	4.21	27	
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445134-BLK1)									Prepared: 11/08/24 Analyzed: 11/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.84*		*8.00*		*98.0*	*70-130*			
LCS (2445134-BS1)									Prepared: 11/08/24 Analyzed: 11/14/24
Benzene	4.57	0.0250	5.00		91.4	70-130			
Ethylbenzene	4.46	0.0250	5.00		89.3	70-130			
Toluene	4.55	0.0250	5.00		91.0	70-130			
o-Xylene	4.53	0.0250	5.00		90.5	70-130			
p,m-Xylene	9.10	0.0500	10.0		91.0	70-130			
Total Xylenes	13.6	0.0250	15.0		90.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.87*		*8.00*		*98.4*	*70-130*			
LCS Dup (2445134-BSD1)									Prepared: 11/08/24 Analyzed: 11/14/24
Benzene	4.71	0.0250	5.00		94.2	70-130	2.98	20	
Ethylbenzene	4.61	0.0250	5.00		92.3	70-130	3.30	20	
Toluene	4.70	0.0250	5.00		94.0	70-130	3.17	20	
o-Xylene	4.67	0.0250	5.00		93.4	70-130	3.13	20	
p,m-Xylene	9.40	0.0500	10.0		94.0	70-130	3.18	20	
Total Xylenes	14.1	0.0250	15.0		93.8	70-130	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.83*		*8.00*		*97.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445134-BLK1)									Prepared: 11/08/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.35*		*8.00*		*91.9*	*70-130*			
LCS (2445134-BS2)									Prepared: 11/08/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	36.9	20.0	50.0		73.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS Dup (2445134-BSD2)									Prepared: 11/08/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	36.6	20.0	50.0		73.2	70-130	0.755	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.48*		*8.00*		*93.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2445135-BLK1)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
LCS (2445135-BS2)									Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.5	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
Matrix Spike (2445135-MS2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130			
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			
Matrix Spike Dup (2445135-MSD2)				**Source: E411075-02**					Prepared: 11/08/24 Analyzed: 11/12/24
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130	8.44	20	
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.524*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446010-BLK1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.7*		*50.0*		*105*	*50-200*			
LCS (2446010-BS1)									Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	*52.9*		*50.0*		*106*	*50-200*			
Matrix Spike (2446010-MS1)				**Source: E411078-08**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	*55.2*		*50.0*		*110*	*50-200*			
Matrix Spike Dup (2446010-MSD1)				**Source: E411078-08**					Prepared: 11/11/24 Analyzed: 11/11/24
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	2.26	20	
Surrogate: n-Nonane	*55.1*		*50.0*		*110*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446016-BLK1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
LCS (2446016-BS1)									Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	233	25.0	250		93.3	38-132			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			
Matrix Spike (2446016-MS1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.7	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.5*	*50-200*			
Matrix Spike Dup (2446016-MSD1)				**Source: E411076-03**					Prepared: 11/11/24 Analyzed: 11/12/24
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	3.01	20	
Surrogate: n-Nonane	*49.3*		*50.0*		*98.6*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446045-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446045-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2446045-MS1)				**Source: E411078-02**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	1160	200	250	847	127	80-120			M4
Matrix Spike Dup (2446045-MSD1)				**Source: E411078-02**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	1150	200	250	847	119	80-120	1.63	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/2024 4:38:20PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446056-BLK1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	ND	20.0							
LCS (2446056-BS1)									Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2446056-MS1)				**Source: E411101-04**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2446056-MSD1)				**Source: E411101-04**					Prepared: 11/12/24 Analyzed: 11/12/24
Chloride	248	20.0	250	ND	99.2	80-120	3.13	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/15/24 16:38

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __3___

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411078 / Job Number 01058-0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
12:30	11.06.24	S	1	BH07	1	10'								x				
12:40	11.06.24	S	1	BH07	2	12'								x				
12:50	11.06.24	S	1	BH07	3	14'								x				
13:00	11.06.24	S	1	BH07	4	16'								x				
13:10	11.06.24	S	1	BH07	5	18'								x				
13:20	11.06.24	S	1	BH07	6	20'								x				
13:30	11.06.24	S	1	BH07	7	22'								x				
13:40	11.06.24	S	1	BH07	8	24'								x				
13:50	11.06.24	S	1	BH07	9	26'								x				
14:00	11.06.24	S	1	BH07	10	28'								x				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Hyatt~~	11/07/24	6:00	Michelle Gonzales	11-7-24	0600
Michelle Gonzales	11-8-24	1645		11-8-24	1641
	11-8-24	1795	Cathy Ma	11.9.24	10:00

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

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

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

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

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 3 of 3

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411078 Job Number 01058·0007	1D 2D 3D Standard; 5 day TAT; CWA SDWA RCRA
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.		
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
	Incident ID: nAB1614039576 and nAB1616628496		
Collected by: Edyte Konan			

Analysis and Method: Depth(ft.); TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; TDS; Cation/ Anion; BGDOC NM; GDOC TX

State: NM x; CO; UT; AZ; TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
15:50	11.06.24	S	1	BH07	21	50'	X		
16:00	11.06.24	S	1	BH07	22	52'	X		
16:10	11.06.24	S	1	BH07	23	54'	X		
16:20	11.06.24	S	1	BH07	24	55'	X		

11/07/24

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Kayla~~	11/07/24	6:00	Michelle Gonzales	11-7-24	0600
Michelle Gonzales	11-8-24	1645		11-8-24	1641
	11-8-24	2236	Cloth Man	11.9.24	10:00

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

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/11/2024 10:00:11AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/09/24 10:00	Work Order ID:	E411078
Phone:	(575) 200-6754	Date Logged In:	11/07/24 16:52	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	11/15/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411115
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411115
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E411115-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 2'	E411115-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 4'	E411115-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 6'	E411115-04A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 8'	E411115-05A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 10'	E411115-06A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 12'	E411115-07A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 14'	E411115-08A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 16'	E411115-09A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 18'	E411115-10A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 20'	E411115-11A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 22'	E411115-12A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 24'	E411115-13A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 26'	E411115-14A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 28'	E411115-15A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 30'	E411115-16A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 32'	E411115-17A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 34'	E411115-18A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 36'	E411115-19A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 38'	E411115-20A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 40'	E411115-21A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 42'	E411115-22A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 44'	E411115-23A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 46'	E411115-24A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 48'	E411115-25A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 0.5'

E411115-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*95.8 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**43.1**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 2'

E411115-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*96.0 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 4'

E411115-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 6'

E411115-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*99.7 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**267**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 8'

E411115-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**267**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 10'

E411115-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*98.6 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**264**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 12'

E411115-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*99.1 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**265**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 14'

E411115-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*127 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**263**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 16'

E411115-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**256**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 18'

E411115-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**336**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 20'

E411115-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*92.0 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**135**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 22'

E411115-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446105
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/16/24	
Surrogate: n-Nonane		*169 %*	*50-200*	*11/13/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**196**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 24'

E411115-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*95.0 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**126**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 26'

E411115-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**135**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 28'

E411115-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*99.3 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**131**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 30'

E411115-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*94.2 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**131**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 32'

E411115-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.6 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**132**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 34'

E411115-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**137**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 36'

E411115-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	**132**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 38'

E411115-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Benzene	ND	0.0250	1	11/12/24	11/16/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/16/24	
Toluene	ND	0.0250	1	11/12/24	11/16/24	
o-Xylene	ND	0.0250	1	11/12/24	11/16/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/16/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446057
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/16/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*11/12/24*	*11/16/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446060
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*99.7 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2446107
Chloride	ND	100	5	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 40'

E411115-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 42'

E411115-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**354**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 44'

E411115-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**354**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 46'

E411115-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

BH09 48'

E411115-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**172**	20.0	1	11/13/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446057-BLK1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.522*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.459*		*0.500*		*91.8*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS (2446057-BS1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.7	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.04	0.0500	5.00		101	70-130			
Total Xylenes	7.55	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*0.527*		*0.500*		*105*	*70-130*			
LCS Dup (2446057-BSD1)									Prepared: 11/12/24 Analyzed: 11/16/24
Benzene	2.45	0.0250	2.50		97.9	70-130	2.36	23	
Ethylbenzene	2.40	0.0250	2.50		96.1	70-130	2.73	27	
Toluene	2.45	0.0250	2.50		98.0	70-130	2.82	24	
o-Xylene	2.48	0.0250	2.50		99.4	70-130	1.00	27	
p,m-Xylene	4.93	0.0500	5.00		98.5	70-130	2.36	27	
Total Xylenes	7.41	0.0250	7.50		98.8	70-130	1.90	27	
Surrogate: Bromofluorobenzene	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.46	0.0250	2.50		98.6	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.74	0.0250	2.50		109	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.27	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS Dup (2446058-BSD1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.45	0.0250	2.50		97.8	70-130	0.794	23	
Ethylbenzene	2.68	0.0250	2.50		107	70-130	0.599	27	
Toluene	2.60	0.0250	2.50		104	70-130	0.192	24	
o-Xylene	2.78	0.0250	2.50		111	70-130	1.56	27	
p,m-Xylene	5.64	0.0500	5.00		113	70-130	1.92	27	
Total Xylenes	8.42	0.0250	7.50		112	70-130	1.80	27	
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.78*		*8.00*		*84.7*	*70-130*			
LCS (2446083-BS1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	4.96	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.73*		*8.00*		*84.2*	*70-130*			
LCS Dup (2446083-BSD1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.41	0.0250	5.00		108	70-130	3.26	20	
Ethylbenzene	5.19	0.0250	5.00		104	70-130	3.30	20	
Toluene	5.31	0.0250	5.00		106	70-130	3.15	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	3.63	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	3.22	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	3.36	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.71*		*8.00*		*83.8*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446057-BLK1)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.522*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.459*		*0.500*		*91.8*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS (2446057-BS2)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.3	70-130			
Surrogate: Bromofluorobenzene	*0.532*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.5*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2446057-BSD2)									Prepared: 11/12/24 Analyzed: 11/16/24
Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		95.1	70-130	8.51	20	
Surrogate: Bromofluorobenzene	*0.535*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2446058-BSD2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130	0.548	20	
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*0.529*		*0.500*		*106*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.5*	*70-130*			
LCS (2446083-BS2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS Dup (2446083-BSD2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.2	70-130	2.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446060-BLK1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*50-200*			
LCS (2446060-BS1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
Matrix Spike (2446060-MS1)				**Source: E411115-14**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132			
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*50-200*			
Matrix Spike Dup (2446060-MSD1)				**Source: E411115-14**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	38-132	3.08	20	
Surrogate: n-Nonane	*49.4*		*50.0*		*98.9*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446061-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			
LCS (2446061-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike (2446061-MS1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2446061-MSD1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	0.0562	20	
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446105-BLK1)									Prepared: 11/13/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.0*		*50.0*		*98.1*	*50-200*			
LCS (2446105-BS1)									Prepared: 11/13/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	230	25.0	250		92.1	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.4*	*50-200*			
Matrix Spike (2446105-MS1)				**Source: E411130-17**					Prepared: 11/13/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			
Matrix Spike Dup (2446105-MSD1)				**Source: E411130-17**					Prepared: 11/13/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.2	38-132	4.21	20	
Surrogate: n-Nonane	*51.7*		*50.0*		*103*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446096-BLK1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	ND	20.0							
LCS (2446096-BS1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2446096-BSD1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	252	20.0	250		101	90-110	0.275	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:40:56AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446107-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446107-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2446107-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	257	20.0	250		103	90-110	0.103	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:40

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411115	Job Number 01058:0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.		1D 2D 3D Standard: 5 day TAT
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		EPA Program: CWA SDWA RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		State: NM CO UT AZ TX
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
8:50	11.07.24	S	1	BH09	11	20'								x				
8:55	11.07.24	S	1	BH09	12	22'								x				
9:00	11.07.24	S	1	BH09	13	24'								x				
9:05	11.07.24	S	1	BH09	14	26'								x				
9:10	11.07.24	S	1	BH09	15	28'								x				
9:15	11.07.24	S	1	BH09	16	30'								x				
9:20	11.07.24	S	1	BH09	17	32'								x				
9:25	11.07.24	S	1	BH09	18	34'								x				
9:30	11.07.24	S	1	BH09	19	36'								x				
9:35	11.07.24	S	1	BH09	20	38'								x				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/11/24	20:00	Michelle Gonzalez	11-11-24	2000
Michelle Gonzalez	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	Cath Mar	11.12.24	9:45

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

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

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

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

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 3 of 3

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411115	Job Number 01058.0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	1D 2D 3D Standard: 5 day TAT	CWA SDWA RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method	State: NM CO UT AZ TX
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
9:40	11.07.24	S	1	BH09	21	40'								X				
9:45	11.07.24	S	1	BH09	22	42'								X				
9:50	11.07.24	S	1	BH09	23	44'								X				
9:55	11.07.24	S	1	BH09	24	46'								X				
10:00	11.07.24	S	1	BH09	25	48'								X				

4/11/2024

Additional Instructions:

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

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

	Date	Time		Date	Time
Relinquished by: (Signature) [illegible]	11/11/24	20:00	Received by: (Signature) Michelle Gonzales	11-11-24	2000
Relinquished by: (Signature) Michelle Gonzales	11-12-24	1740	Received by: (Signature)	11.12.24	1740
Relinquished by: (Signature)	11.12.24	2400	Received by: (Signature) Cath Man	11.12.24	9:45

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

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

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

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Envirotech Analytical Laboratory

Printed: 11/13/2024 9:43:48AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411115
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:50	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411122
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/18/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411122
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Michelle Gonzales
Client Representative
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mgonzales@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 16:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 50'	E411122-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 4:36:24PM

BH09 50'

E411122-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/16/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/13/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**174**	20.0	1	11/14/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 4:36:24PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.78*		*8.00*		*84.7*	*70-130*			
LCS (2446083-BS1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	4.96	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.73*		*8.00*		*84.2*	*70-130*			
LCS Dup (2446083-BSD1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.41	0.0250	5.00		108	70-130	3.26	20	
Ethylbenzene	5.19	0.0250	5.00		104	70-130	3.30	20	
Toluene	5.31	0.0250	5.00		106	70-130	3.15	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	3.63	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	3.22	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	3.36	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 4:36:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.5*	*70-130*			
LCS (2446083-BS2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS Dup (2446083-BSD2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.2	70-130	2.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 4:36:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446104-BLK1)									Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*63.2*		*50.0*		*126*	*50-200*			
LCS (2446104-BS1)									Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*50-200*			
Matrix Spike (2446104-MS1)				**Source: E411119-25**					Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*57.1*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2446104-MSD1)				**Source: E411119-25**					Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132	3.93	20	
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/2024 4:36:24PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446113-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446113-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	254	20.0	250		102	90-110			
LCS Dup (2446113-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	255	20.0	250		102	90-110	0.0987	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/18/24 16:36

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page __1___ of __1___

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only	TAT / EPA Program
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411122	Job Number 01058-0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	1D / 2D / 3D / Standard: 5 day TAT	CWA / SDWA / RCRA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496		

Analysis and Method: Depth(ft.); TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; TDS; Cation/ Anion; BGDOC NM; GDOC TX

State: NM x; CO; UT; AZ; TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
10:02	11.07.24	S	1	BH09	1	50'	X		

11/14/2024

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/11/2024	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	Cath Man	11.12.24	9:45

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:52:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411122
Phone:	(575) 200-6754	Date Logged In:	11/12/24 13:34	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411114
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411114
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 52'	E411114-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 54'	E411114-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH09 55'	E411114-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

BH09 52'

E411114-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**191**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

BH09 54'

E411114-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	**135**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

BH09 55'

E411114-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446058
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446061
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446096
Chloride	ND	40.0	2	11/13/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.46	0.0250	2.50		98.6	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.60	0.0250	2.50		104	70-130			
o-Xylene	2.74	0.0250	2.50		109	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.27	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS Dup (2446058-BSD1)									Prepared: 11/12/24 Analyzed: 11/15/24
Benzene	2.45	0.0250	2.50		97.8	70-130	0.794	23	
Ethylbenzene	2.68	0.0250	2.50		107	70-130	0.599	27	
Toluene	2.60	0.0250	2.50		104	70-130	0.192	24	
o-Xylene	2.78	0.0250	2.50		111	70-130	1.56	27	
p,m-Xylene	5.64	0.0500	5.00		113	70-130	1.92	27	
Total Xylenes	8.42	0.0250	7.50		112	70-130	1.80	27	
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446058-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2446058-BS2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			
LCS Dup (2446058-BSD2)									Prepared: 11/12/24 Analyzed: 11/15/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130	0.548	20	
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*0.529*		*0.500*		*106*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446061-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			
LCS (2446061-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike (2446061-MS1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2446061-MSD1)				**Source: E411114-01**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	0.0562	20	
Surrogate: n-Nonane	*54.1*		*50.0*		*108*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:41:24AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446096-BLK1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	ND	20.0							
LCS (2446096-BS1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2446096-BSD1)									Prepared: 11/13/24 Analyzed: 11/13/24
Chloride	252	20.0	250		101	90-110	0.275	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:41

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 1

| | | |

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:42:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411114
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:46	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411116
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411116
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 12:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 0.5'	E411116-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 2'	E411116-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 4'	E411116-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 6'	E411116-04A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 8'	E411116-05A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 10'	E411116-06A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 12'	E411116-07A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 14'	E411116-08A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 16'	E411116-09A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 18'	E411116-10A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 20'	E411116-11A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 22'	E411116-12A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 24'	E411116-13A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 26'	E411116-14A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 28'	E411116-15A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 30'	E411116-16A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 32'	E411116-17A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 34'	E411116-18A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 36'	E411116-19A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 38'	E411116-20A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 40'	E411116-21A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 42'	E411116-22A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 44'	E411116-23A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 46'	E411116-24A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 48'	E411116-25A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 50'	E411116-26A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 52'	E411116-27A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 54'	E411116-28A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH10 55'	E411116-29A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 0.5'

E411116-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	100	5	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 2'

E411116-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*98.3 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**54.2**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 4'

E411116-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**64.0**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 6'

E411116-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**64.2**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 8'

E411116-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*98.7 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 10'

E411116-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**51.0**	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 12'

E411116-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**66.0**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 14'

E411116-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	**65.9**	20.0	1	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 16'

E411116-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 18'

E411116-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 20'

E411116-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 22'

E411116-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*98.7 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 24'

E411116-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 26'

E411116-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 28'

E411116-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 30'

E411116-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 32'

E411116-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 34'

E411116-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 36'

E411116-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 38'

E411116-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446059
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446069
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446108
Chloride	ND	40.0	2	11/13/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 40'

E411116-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 42'

E411116-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 44'

E411116-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*116 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 46'

E411116-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 48'

E411116-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 50'

E411116-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 52'

E411116-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 54'

E411116-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	100	5	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

BH10 55'

E411116-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Benzene	ND	0.0250	1	11/12/24	11/15/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/15/24	
Toluene	ND	0.0250	1	11/12/24	11/15/24	
o-Xylene	ND	0.0250	1	11/12/24	11/15/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/15/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/15/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446062
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/15/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446068
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/13/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	ND	40.0	2	11/13/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446059-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.48*		*8.00*		*93.5*	*70-130*			
LCS (2446059-BS1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	4.44	0.0250	5.00		88.7	70-130			
Toluene	4.57	0.0250	5.00		91.4	70-130			
o-Xylene	4.41	0.0250	5.00		88.3	70-130			
p,m-Xylene	9.02	0.0500	10.0		90.2	70-130			
Total Xylenes	13.4	0.0250	15.0		89.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.48*		*8.00*		*93.5*	*70-130*			
LCS Dup (2446059-BSD1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	5.12	0.0250	5.00		102	70-130	9.09	20	
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130	9.40	20	
Toluene	5.01	0.0250	5.00		100	70-130	9.15	20	
o-Xylene	4.87	0.0250	5.00		97.4	70-130	9.85	20	
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130	9.08	20	
Total Xylenes	14.8	0.0250	15.0		98.3	70-130	9.34	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.43*		*8.00*		*92.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446062-BLK1)									Prepared: 11/12/24 Analyzed: 11/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.83*		*8.00*		*97.9*	*70-130*			
LCS (2446062-BS1)									Prepared: 11/12/24 Analyzed: 11/14/24
Benzene	4.22	0.0250	5.00		84.4	70-130			
Ethylbenzene	4.22	0.0250	5.00		84.5	70-130			
Toluene	4.27	0.0250	5.00		85.4	70-130			
o-Xylene	4.22	0.0250	5.00		84.5	70-130			
p,m-Xylene	8.61	0.0500	10.0		86.1	70-130			
Total Xylenes	12.8	0.0250	15.0		85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
LCS Dup (2446062-BSD1)									Prepared: 11/12/24 Analyzed: 11/14/24
Benzene	3.81	0.0250	5.00		76.2	70-130	10.1	20	
Ethylbenzene	3.82	0.0250	5.00		76.4	70-130	9.99	20	
Toluene	3.86	0.0250	5.00		77.2	70-130	10.1	20	
o-Xylene	3.83	0.0250	5.00		76.5	70-130	9.92	20	
p,m-Xylene	7.80	0.0500	10.0		78.0	70-130	9.87	20	
Total Xylenes	11.6	0.0250	15.0		77.5	70-130	9.89	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.80*		*8.00*		*97.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446059-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		*8.00*		*90.4*	*70-130*			
LCS (2446059-BS2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	35.4	20.0	50.0		70.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			
LCS Dup (2446059-BSD2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0		83.4	70-130	16.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*92.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446062-BLK1)									Prepared: 11/12/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.35*		*8.00*		*91.8*	*70-130*			
LCS (2446062-BS2)									Prepared: 11/12/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*8.00*		*93.4*	*70-130*			
LCS Dup (2446062-BSD2)									Prepared: 11/12/24 Analyzed: 11/14/24
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.9	70-130	1.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446068-BLK1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.0*		*50.0*		*108*	*50-200*			
LCS (2446068-BS1)									Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	*52.8*		*50.0*		*106*	*50-200*			
Matrix Spike (2446068-MS1)				**Source: E411116-25**					Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*50-200*			
Matrix Spike Dup (2446068-MSD1)				**Source: E411116-25**					Prepared: 11/12/24 Analyzed: 11/13/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	5.95	20	
Surrogate: n-Nonane	*55.5*		*50.0*		*111*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446069-BLK1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.4*		*50.0*		*96.8*	*50-200*			
LCS (2446069-BS1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	*51.6*		*50.0*		*103*	*50-200*			
Matrix Spike (2446069-MS1)				**Source: E411116-05**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2446069-MSD1)				**Source: E411116-05**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	9.20	20	
Surrogate: n-Nonane	*50.7*		*50.0*		*101*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446108-BLK1)									Prepared: 11/13/24 Analyzed: 11/15/24
Chloride	ND	20.0							
LCS (2446108-BS1)									Prepared: 11/13/24 Analyzed: 11/15/24
Chloride	253	20.0	250		101	90-110			
LCS Dup (2446108-BSD1)									Prepared: 11/13/24 Analyzed: 11/15/24
Chloride	252	20.0	250		101	90-110	0.246	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 12:21:43PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446111-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446111-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	251	20.0	250		101	90-110			
LCS Dup (2446111-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	253	20.0	250		101	90-110	0.638	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 12:21

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	**Lab Use Only**	**TAT** / **EPA Program**
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411116	Job Number 01058.0007
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.		1D 2D 3D Standard: 5 day TAT; CWA; SDWA
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method	RCRA
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502		State: NM x, CO, UT, AZ, TX
Phone: 432-305-6415	Email: jim.raley@dvn.com		
Email: Devon-team@etechenv.com	WO: 21255735		
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
13:25	11.07.24	S	1	BH10	11	20'								x				
13:30	11.07.24	S	1	BH10	12	22'								x				
13:35	11.07.24	S	1	BH10	13	24'								x				
13:40	11.07.24	S	1	BH10	14	26'								x				
13:45	11.07.24	S	1	BH10	15	28'								x				
13:50	11.07.24	S	1	BH10	16	30'								x				
13:55	11.07.24	S	1	BH10	17	32'								x				
14:00	11.07.24	S	1	BH10	18	34'								x				
14:05	11.07.24	S	1	BH10	19	36'								x				
14:10	11.07.24	S	1	BH10	20	38'								x				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/11/24	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	[signature]	11.12.24	9:45

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

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

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

envirotech

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411116 / Job Number 01058.0007
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496	

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		NM	CO	UT	AZ	TX		Remarks
						Analysis and Method												x						
14:15	11.07.24	S	1	BH10	21	40'								X										
14:20	11.07.24	S	1	BH10	22	42'								X										
14:25	11.07.24	S	1	BH10	23	44'								X										
14:30	11.07.24	S	1	BH10	24	46'								X										
14:35	11.07.24	S	1	BH10	25	48'								X										
14:40	11.07.24	S	1	BH10	26	50'								X										
14:45	11.07.24	S	1	BH10	27	52'								X										
14:50	11.07.24	S	1	BH10	28	54'								X										
14:55	11.07.24	S	1	BH10	29	55'								X										

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/11/24	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	[signature]	11.12.24	9:45

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:46:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411116
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:53	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411117
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411117
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 0.5'	E411117-01A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 2'	E411117-02A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 4'	E411117-03A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 6'	E411117-04A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 8'	E411117-05A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 10'	E411117-06A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 12'	E411117-07A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 14'	E411117-08A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 16'	E411117-09A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 18'	E411117-10A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 20'	E411117-11A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 22'	E411117-12A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 24'	E411117-13A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 26'	E411117-14A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 28'	E411117-15A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 30'	E411117-16A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 32'	E411117-17A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 34'	E411117-18A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 36'	E411117-19A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 38'	E411117-20A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 40'	E411117-21A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 42'	E411117-22A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 44'	E411117-23A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 46'	E411117-24A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 48'	E411117-25A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 50'	E411117-26A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 52'	E411117-27A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 54	E411117-28A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.
BH11 55'	E411117-29A	Soil	11/07/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 0.5'

E411117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**174**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 2'

E411117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**185**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 4'

E411117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**427**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 6'

E411117-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**358**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 8'

E411117-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**360**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 10'

E411117-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**4240**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 12'

E411117-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**1830**	40.0	2	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 14'

E411117-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**1830**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 16'

E411117-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**1790**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 18'

E411117-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2100**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 20'

E411117-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2070**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 22'

E411117-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2100**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 24'

E411117-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2030**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 26'

E411117-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**1970**	40.0	2	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 28'

E411117-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2240**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 30'

E411117-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2250**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 32'

E411117-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2350**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 34'

E411117-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2360**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 36'

E411117-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2400**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 38'

E411117-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2446071
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/14/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/12/24*	*11/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446124
Chloride	**2370**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 40'

E411117-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**4250**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 42'

E411117-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**4580**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 44'

E411117-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**4250**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 46'

E411117-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**4300**	40.0	2	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 48'

E411117-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**196**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 50'

E411117-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**486**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 52'

E411117-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**561**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 54

E411117-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/19/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/13/24*	*11/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**485**	20.0	1	11/13/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

BH11 55'

E411117-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.7 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*90.7 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446111
Chloride	**576**	20.0	1	11/13/24	11/15/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446064-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			
LCS (2446064-BS1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.31	0.0250	2.50		92.2	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.76	0.0250	2.50		110	70-130			
p,m-Xylene	5.58	0.0500	5.00		112	70-130			
Total Xylenes	8.34	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS Dup (2446064-BSD1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.31	0.0250	2.50		92.6	70-130	0.390	23	
Ethylbenzene	2.61	0.0250	2.50		104	70-130	1.24	27	
Toluene	2.50	0.0250	2.50		100	70-130	1.31	24	
o-Xylene	2.79	0.0250	2.50		112	70-130	1.17	27	
p,m-Xylene	5.58	0.0500	5.00		112	70-130	0.0717	27	
Total Xylenes	8.37	0.0250	7.50		112	70-130	0.341	27	
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446063-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			
LCS (2446063-BS1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	5.34	0.0250	5.00		107	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.60*		*8.00*		*95.0*	*70-130*			
LCS Dup (2446063-BSD1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	5.16	0.0250	5.00		103	70-130	3.57	20	
Ethylbenzene	4.93	0.0250	5.00		98.5	70-130	3.07	20	
Toluene	5.05	0.0250	5.00		101	70-130	3.37	20	
o-Xylene	4.93	0.0250	5.00		98.6	70-130	3.49	20	
p,m-Xylene	10.0	0.0500	10.0		100	70-130	3.02	20	
Total Xylenes	14.9	0.0250	15.0		99.6	70-130	3.17	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446063-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		*8.00*		*90.1*	*70-130*			
LCS (2446063-BS2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	36.3	20.0	50.0		72.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*91.9*	*70-130*			
LCS Dup (2446063-BSD2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0		86.0	70-130	16.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.45*		*8.00*		*93.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446064-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			
LCS (2446064-BS2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.457*		*0.500*		*91.4*	*70-130*			
Surrogate: Toluene-d8	*0.535*		*0.500*		*107*	*70-130*			
LCS Dup (2446064-BSD2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130	1.61	20	
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446071-BLK1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*53.4*		*50.0*		*107*	*50-200*			
LCS (2446071-BS1)									Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: n-Nonane	*54.8*		*50.0*		*110*	*50-200*			
Matrix Spike (2446071-MS1)				**Source: E411117-17**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	*57.0*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2446071-MSD1)				**Source: E411117-17**					Prepared: 11/12/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	4.91	20	
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446093-BLK1)									Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*50-200*			
LCS (2446093-BS1)									Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	*50.7*		*50.0*		*101*	*50-200*			
Matrix Spike (2446093-MS1)				**Source: E411118-27**					Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132			
Surrogate: n-Nonane	*51.1*		*50.0*		*102*	*50-200*			
Matrix Spike Dup (2446093-MSD1)				**Source: E411118-27**					Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.0	38-132	5.12	20	
Surrogate: n-Nonane	*48.0*		*50.0*		*95.9*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446111-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446111-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	251	20.0	250		101	90-110			
LCS Dup (2446111-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	253	20.0	250		101	90-110	0.638	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:18:26AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446124-BLK1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446124-BS1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	255	20.0	250		102	90-110			
LCS Dup (2446124-BSD1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	255	20.0	250		102	90-110	0.00157	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:18

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 3 of 3

| | | |

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:48:06AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411117
Phone:	(575) 200-6754	Date Logged In:	11/12/24 10:59	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411118
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411118
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 0.5'	E411118-01A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 2'	E411118-02A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 4'	E411118-03A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 6'	E411118-04A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 8'	E411118-05A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 10'	E411118-06A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 12'	E411118-07A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 14'	E411118-08A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 16'	E411118-09A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 18'	E411118-10A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 20'	E411118-11A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 22'	E411118-12A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 24'	E411118-13A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 26'	E411118-14A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 28'	E411118-15A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 30'	E411118-16A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 32'	E411118-17A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 34'	E411118-18A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 36'	E411118-19A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 38'	E411118-20A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 40'	E411118-21A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 42'	E411118-22A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 44'	E411118-23A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 46'	E411118-24A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 48'	E411118-25A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 50'	E411118-26A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 52'	E411118-27A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 54'	E411118-28A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH12 55'	E411118-29A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 0.5'

E411118-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*79.4 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**378**	100	5	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 2'

E411118-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**505**	200	10	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 4'

E411118-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**528**	200	10	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 6'

E411118-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*97.3 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**546**	200	10	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 8'

E411118-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.4 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**484**	200	10	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 10'

E411118-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**80.7**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 12'

E411118-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*95.1 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**82.2**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 14'

E411118-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**75.6**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 16'

E411118-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**64.7**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 18'

E411118-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**72.3**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 20'

E411118-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**72.8**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 22'

E411118-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**65.1**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 24'

E411118-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**70.7**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 26'

E411118-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*95.3 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**73.0**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 28'

E411118-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**69.4**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 30'

E411118-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**72.8**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 32'

E411118-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.7 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**72.2**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 34'

E411118-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**73.8**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 36'

E411118-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**82.1**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 38'

E411118-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446065
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/12/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/12/24	11/16/24	
Surrogate: n-Nonane		*99.3 %*	*50-200*	*11/12/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446109
Chloride	**80.7**	20.0	1	11/14/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 40'

E411118-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**58.8**	20.0	1	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 42'

E411118-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**63.4**	20.0	1	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 44'

E411118-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**83.7**	20.0	1	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 46'

E411118-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*99.4 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**75.7**	20.0	1	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 48'

E411118-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**534**	100	5	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 50'

E411118-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*98.2 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**513**	200	10	11/15/24	11/15/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 52'

E411118-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*99.6 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**480**	200	10	11/15/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 54'

E411118-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/17/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/17/24	
Toluene	ND	0.0250	1	11/12/24	11/17/24	
o-Xylene	ND	0.0250	1	11/12/24	11/17/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/17/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/17/24	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/12/24*	*11/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**182**	20.0	1	11/15/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

BH12 55'

E411118-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2446064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*11/12/24*	*11/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446093
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446143
Chloride	**168**	20.0	1	11/15/24	11/16/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446064-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			
LCS (2446064-BS1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.31	0.0250	2.50		92.2	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.76	0.0250	2.50		110	70-130			
p,m-Xylene	5.58	0.0500	5.00		112	70-130			
Total Xylenes	8.34	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.530*		*0.500*		*106*	*70-130*			
LCS Dup (2446064-BSD1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.31	0.0250	2.50		92.6	70-130	0.390	23	
Ethylbenzene	2.61	0.0250	2.50		104	70-130	1.24	27	
Toluene	2.50	0.0250	2.50		100	70-130	1.31	24	
o-Xylene	2.79	0.0250	2.50		112	70-130	1.17	27	
p,m-Xylene	5.58	0.0500	5.00		112	70-130	0.0717	27	
Total Xylenes	8.37	0.0250	7.50		112	70-130	0.341	27	
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446065-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.446*		*0.500*		*89.1*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			
LCS (2446065-BS1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.44	0.0250	2.50		97.7	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.6	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.44	0.0250	2.50		97.5	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.35	0.0250	7.50		98.0	70-130			
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			
LCS Dup (2446065-BSD1)									Prepared: 11/12/24 Analyzed: 11/17/24
Benzene	2.44	0.0250	2.50		97.8	70-130	0.102	23	
Ethylbenzene	2.43	0.0250	2.50		97.1	70-130	3.65	27	
Toluene	2.49	0.0250	2.50		99.6	70-130	3.95	24	
o-Xylene	2.44	0.0250	2.50		97.8	70-130	0.225	27	
p,m-Xylene	4.93	0.0500	5.00		98.5	70-130	0.264	27	
Total Xylenes	7.37	0.0250	7.50		98.3	70-130	0.251	27	
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.535*		*0.500*		*107*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446064-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			
LCS (2446064-BS2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.457*		*0.500*		*91.4*	*70-130*			
Surrogate: Toluene-d8	*0.535*		*0.500*		*107*	*70-130*			
LCS Dup (2446064-BSD2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130	1.61	20	
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446065-BLK1)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.446*		*0.500*		*89.1*	*70-130*			
Surrogate: Toluene-d8	*0.533*		*0.500*		*107*	*70-130*			
LCS (2446065-BS2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	*0.550*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*0.542*		*0.500*		*108*	*70-130*			
LCS Dup (2446065-BSD2)									Prepared: 11/12/24 Analyzed: 11/17/24
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130	0.468	20	
Surrogate: Bromofluorobenzene	*0.552*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446072-BLK1)									Prepared: 11/12/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.9*		*50.0*		*99.8*	*50-200*			
LCS (2446072-BS1)									Prepared: 11/12/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	243	25.0	250		97.4	38-132			
Surrogate: n-Nonane	*51.3*		*50.0*		*103*	*50-200*			
Matrix Spike (2446072-MS1)				**Source: E411118-04**					Prepared: 11/12/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132			
Surrogate: n-Nonane	*51.9*		*50.0*		*104*	*50-200*			
Matrix Spike Dup (2446072-MSD1)				**Source: E411118-04**					Prepared: 11/12/24 Analyzed: 11/16/24
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132	4.25	20	
Surrogate: n-Nonane	*50.5*		*50.0*		*101*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446093-BLK1)									Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*50-200*			
LCS (2446093-BS1)									Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	*50.7*		*50.0*		*101*	*50-200*			
Matrix Spike (2446093-MS1)				**Source: E411118-27**					Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132			
Surrogate: n-Nonane	*51.1*		*50.0*		*102*	*50-200*			
Matrix Spike Dup (2446093-MSD1)				**Source: E411118-27**					Prepared: 11/13/24 Analyzed: 11/19/24
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.0	38-132	5.12	20	
Surrogate: n-Nonane	*48.0*		*50.0*		*95.9*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446109-BLK1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446109-BS1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2446109-BSD1)									Prepared: 11/14/24 Analyzed: 11/14/24
Chloride	252	20.0	250		101	90-110	0.0805	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:13:21AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446143-BLK1)									Prepared: 11/15/24 Analyzed: 11/15/24
Chloride	ND	20.0							
LCS (2446143-BS1)									Prepared: 11/15/24 Analyzed: 11/15/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2446143-BSD1)									Prepared: 11/15/24 Analyzed: 11/15/24
Chloride	251	20.0	250		101	90-110	0.0409	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:13

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 1 of 3

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411118
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number 01057-0007
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496	

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			5 day TAT		
					RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
13:25	11.08.24	S	1	BH12	11	20'								x				
13:30	11.08.24	S	1	BH12	12	22'								x				
13:35	11.08.24	S	1	BH12	13	24'								x				
13:40	11.08.24	S	1	BH12	14	26'								x				
13:45	11.08.24	S	1	BH12	15	28'								x				
13:50	11.08.24	S	1	BH12	16	30'								x				
13:55	11.08.24	S	1	BH12	17	32'								x				
14:00	11.08.24	S	1	BH12	18	34'								x				
14:05	11.08.24	S	1	BH12	19	36'								x				
14:10	11.08.24	S	1	BH12	20	38'								x				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/11/24	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740		11.12.24	1740
	11.12.24	2400	Cath Mc	11.12.24	9:45

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

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

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

envirotech

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	**Bill To**	Lab Use Only: Lab WO# E411118 / Job Number 01058.0001
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
	Incident ID: nAB1614039576 and nAB1616628496	
Collected by: Edyte Konan		

TAT: 1D | 2D | 3D | Standard: 5 day TAT

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/ Anion	BGDOC NM		GDOC TX		Remarks
14:15	11.08.24	S	1	BH12	21	40'								X				
14:20	11.08.24	S	1	BH12	22	42'								X				
14:25	11.08.24	S	1	BH12	23	44'								X				
14:30	11.08.24	S	1	BH12	24	46'								X				
14:35	11.08.24	S	1	BH12	25	48'								X				
14:40	11.08.24	S	1	BH12	26	50'								X				
14:45	11.08.24	S	1	BH12	27	52'								X				
14:50	11.08.24	S	1	BH12	28	54'								X				
14:55	11.08.24	S	1	BH12	29	55'								X				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11/11/24	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740	[signature]	11.12.24	1740
[signature]	11.12.24	2400	Carlos Mar	11.12.24	9:45

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

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:49:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411118
Phone:	(575) 200-6754	Date Logged In:	11/12/24 11:06	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E411119
Job Number:	01058-0007
Received:	11/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/19/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/19/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E411119
Date Received: 11/12/2024 9:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/12/2024 9:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH13 0.5'	E411119-01A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 2'	E411119-02A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 4'	E411119-03A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 6'	E411119-04A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 8'	E411119-05A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 10'	E411119-06A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 12'	E411119-07A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 14'	E411119-08A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 16'	E411119-09A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 18'	E411119-10A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 20'	E411119-11A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 22'	E411119-12A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 24'	E411119-13A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 26'	E411119-14A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 28'	E411119-15A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 30'	E411119-16A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 32'	E411119-17A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 34'	E411119-18A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 36'	E411119-19A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 38'	E411119-20A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 40'	E411119-21A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 42'	E411119-22A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 44'	E411119-23A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 46'	E411119-24A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 48'	E411119-25A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 50'	E411119-26A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 52'	E411119-27A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 54'	E411119-28A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.
BH13 55'	E411119-29A	Soil	11/08/24	11/12/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 0.5'

E411119-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**183**	20.0	1	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 2'

E411119-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.9 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**178**	20.0	1	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 4'

E411119-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**181**	20.0	1	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 6'

E411119-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.7 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**184**	20.0	1	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 8'

E411119-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**176**	20.0	1	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 10'

E411119-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.6 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*98.8 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 12'

E411119-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 14'

E411119-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.1 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 16'

E411119-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 18'

E411119-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 20'

E411119-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 22'

E411119-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 24'

E411119-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 26'

E411119-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*99.1 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 28'

E411119-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*98.7 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 30'

E411119-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 32'

E411119-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*86.1 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 34'

E411119-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*86.7 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*98.7 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 36'

E411119-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.9 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	ND	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 38'

E411119-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Benzene	ND	0.0250	1	11/12/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/12/24	11/18/24	
Toluene	ND	0.0250	1	11/12/24	11/18/24	
o-Xylene	ND	0.0250	1	11/12/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/12/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/12/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*87.3 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446066
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/12/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/12/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446094
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446121
Chloride	**396**	100	5	11/14/24	11/16/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 40'

E411119-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.3 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*121 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**374**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 42'

E411119-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.8 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**396**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 44'

E411119-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**381**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 46'

E411119-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**379**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 48'

E411119-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**391**	40.0	2	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 50'

E411119-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*118 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**124**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 52'

E411119-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*122 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**128**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 54'

E411119-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/15/24	
Surrogate: n-Nonane		*121 %*	*50-200*	*11/13/24*	*11/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**127**	20.0	1	11/14/24	11/14/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

BH13 55'

E411119-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Benzene	ND	0.0250	1	11/13/24	11/18/24	
Ethylbenzene	ND	0.0250	1	11/13/24	11/18/24	
Toluene	ND	0.0250	1	11/13/24	11/18/24	
o-Xylene	ND	0.0250	1	11/13/24	11/18/24	
p,m-Xylene	ND	0.0500	1	11/13/24	11/18/24	
Total Xylenes	ND	0.0250	1	11/13/24	11/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2446083
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/24	11/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*11/13/24*	*11/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2446104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/24	11/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/24	11/16/24	
Surrogate: n-Nonane		*121 %*	*50-200*	*11/13/24*	*11/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2446113
Chloride	**131**	20.0	1	11/14/24	11/14/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446066-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.87*		*8.00*		*98.3*	*70-130*			
LCS (2446066-BS1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	5.86	0.0250	5.00		117	70-130			
Ethylbenzene	5.63	0.0250	5.00		113	70-130			
Toluene	5.76	0.0250	5.00		115	70-130			
o-Xylene	5.63	0.0250	5.00		113	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	17.1	0.0250	15.0		114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.88*		*8.00*		*98.5*	*70-130*			
LCS Dup (2446066-BSD1)									Prepared: 11/12/24 Analyzed: 11/18/24
Benzene	5.17	0.0250	5.00		103	70-130	12.6	20	
Ethylbenzene	4.99	0.0250	5.00		99.9	70-130	12.0	20	
Toluene	5.08	0.0250	5.00		102	70-130	12.5	20	
o-Xylene	4.98	0.0250	5.00		99.7	70-130	12.1	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	11.9	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	12.0	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.68*		*8.00*		*96.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.78*		*8.00*		*84.7*	*70-130*			
LCS (2446083-BS1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	4.96	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.73*		*8.00*		*84.2*	*70-130*			
LCS Dup (2446083-BSD1)									Prepared: 11/13/24 Analyzed: 11/18/24
Benzene	5.41	0.0250	5.00		108	70-130	3.26	20	
Ethylbenzene	5.19	0.0250	5.00		104	70-130	3.30	20	
Toluene	5.31	0.0250	5.00		106	70-130	3.15	20	
o-Xylene	5.14	0.0250	5.00		103	70-130	3.63	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	3.22	20	
Total Xylenes	15.7	0.0250	15.0		104	70-130	3.36	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.71*		*8.00*		*83.8*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446066-BLK1)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.13*		*8.00*		*89.1*	*70-130*			
LCS (2446066-BS2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.27*		*8.00*		*90.9*	*70-130*			
LCS Dup (2446066-BSD2)									Prepared: 11/12/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.3	70-130	2.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446083-BLK1)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		*8.00*		*94.5*	*70-130*			
LCS (2446083-BS2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS Dup (2446083-BSD2)									Prepared: 11/13/24 Analyzed: 11/18/24
Gasoline Range Organics (C6-C10)	39.6	20.0	50.0		79.2	70-130	2.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446094-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.8*		*50.0*		*99.6*	*50-200*			
LCS (2446094-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	*47.4*		*50.0*		*94.8*	*50-200*			
Matrix Spike (2446094-MS1)				**Source: E411119-05**					Prepared: 11/13/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	*50.0*		*50.0*		*99.9*	*50-200*			
Matrix Spike Dup (2446094-MSD1)				**Source: E411119-05**					Prepared: 11/13/24 Analyzed: 11/14/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	1.48	20	
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446104-BLK1)									Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*63.2*		*50.0*		*126*	*50-200*			
LCS (2446104-BS1)									Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*50-200*			
Matrix Spike (2446104-MS1)				**Source: E411119-25**					Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	*57.1*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2446104-MSD1)				**Source: E411119-25**					Prepared: 11/13/24 Analyzed: 11/15/24
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	38-132	3.93	20	
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446113-BLK1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	ND	20.0							
LCS (2446113-BS1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	254	20.0	250		102	90-110			
LCS Dup (2446113-BSD1)									Prepared: 11/13/24 Analyzed: 11/14/24
Chloride	255	20.0	250		102	90-110	0.0987	20	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/2024 11:07:36AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2446121-BLK1)									Prepared: 11/14/24 Analyzed: 11/16/24
Chloride	ND	20.0							
LCS (2446121-BS1)									Prepared: 11/14/24 Analyzed: 11/16/24
Chloride	252	20.0	250		101	90-110			
LCS Dup (2446121-BSD1)									Prepared: 11/14/24 Analyzed: 11/16/24
Chloride	253	20.0	250		101	90-110	0.167	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/19/24 11:07

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

| | | |

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only
Project: East Pecos 22-3 Produced Water Gathering Line	Attention: Jim Raley	Lab WO# E411119
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number 03E-0051
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	
City, State, Zip_Odessa,TX, 79765	Phone: 575-885-7502	
Phone: 432-305-6415	Email: jim.raley@dvn.com	
Email: Devon-team@etechenv.com	WO: 21255735	
Collected by: Edyte Konan	Incident ID: nAB1614039576 and nAB1616628496	

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			5 day TAT		
					RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TDS | Cation/Anion | BGDOC NM | | GDOC TX | | Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	BGDOC NM	GDOC TX	Remarks
15:50	11.08.24	S	1	BH13	11	20'	x		
15:55	11.08.24	S	1	BH13	12	22'	x		
16:00	11.08.24	S	1	BH13	13	24'	x		
16:05	11.08.24	S	1	BH13	14	26'	x		
16:10	11.08.24	S	1	BH13	15	28'	x		
16:15	11.08.24	S	1	BH13	16	30'	x		
16:20	11.08.24	S	1	BH13	17	32'	x		
16:25	11.08.24	S	1	BH13	18	34'	x		
16:30	11.08.24	S	1	BH13	19	36'	x		
16:35	11.08.24	S	1	BH13	20	38'	x		

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/11/24	20:00	Michelle Gonzales	11-11-24	2000
Michelle Gonzales	11-12-24	1740		11-12-24	1746
	11-12-24	2400		11-12-24	9:45

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

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

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

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Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

Project Information | Chain of Custody | Page 3 of 3

| | | |

Envirotech Analytical Laboratory

Printed: 11/13/2024 9:51:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/12/24 09:45	Work Order ID:	E411119
Phone:	(575) 200-6754	Date Logged In:	11/12/24 11:09	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	11/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506096
Job Number:	01058-0007
Received:	6/13/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/18/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/18/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506096
Date Received: 6/13/2025 7:00:28AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/13/2025 7:00:28AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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BH15 4’ 15

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/18/25 14:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH14 0.5'	E506096-01A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH14 1'	E506096-02A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH14 2'	E506096-03A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH14 3'	E506096-04A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH14 4'	E506096-05A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH15 0.5'	E506096-06A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH15 1'	E506096-07A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH15 2'	E506096-08A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH15 3'	E506096-09A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH15 4'	E506096-10A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH16 0.5'	E506096-11A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH16 1'	E506096-12A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH16 2'	E506096-13A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH16 3'	E506096-14A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH16 4'	E506096-15A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH17 0.5'	E506096-16A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH17 1'	E506096-17A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH17 2'	E506096-18A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH17 3'	E506096-19A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.
BH17 4'	E506096-20A	Soil	06/11/25	06/13/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH14 0.5'

E506096-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**87.5**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH14 1'

E506096-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*98.3 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**231**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH14 2'

E506096-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**75.1**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH14 3'

E506096-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*96.1 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**20.7**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH14 4'

E506096-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*98.4 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**48.7**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH15 0.5'

E506096-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**56.1**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH15 1'

E506096-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*98.2 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**63.9**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH15 2'

E506096-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*96.0 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**36.2**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH15 3'

E506096-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*99.8 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**50.3**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH15 4'

E506096-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*99.4 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**131**	20.0	1	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH16 0.5'

E506096-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*96.8 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**198**	100	5	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH16 1'

E506096-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/13/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/13/25	
Toluene	ND	0.0250	1	06/13/25	06/13/25	
o-Xylene	ND	0.0250	1	06/13/25	06/13/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/13/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/13/25	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/13/25*	*06/13/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/13/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/13/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/13/25	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/13/25*	*06/13/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/13/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/13/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*97.1 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**223**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH16 2'

E506096-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*98.3 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**249**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH16 3'

E506096-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*97.1 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**231**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH16 4'

E506096-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*97.9 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**421**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH17 0.5'

E506096-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*96.6 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**766**	100	5	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH17 1'

E506096-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*99.7 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*99.7 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*100 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**2440**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH17 2'

E506096-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*98.7 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**1760**	200	10	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH17 3'

E506096-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*99.6 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**1640**	40.0	2	06/13/25	06/13/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

BH17 4'

E506096-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Benzene	ND	0.0250	1	06/13/25	06/14/25	
Ethylbenzene	ND	0.0250	1	06/13/25	06/14/25	
Toluene	ND	0.0250	1	06/13/25	06/14/25	
o-Xylene	ND	0.0250	1	06/13/25	06/14/25	
p,m-Xylene	ND	0.0500	1	06/13/25	06/14/25	
Total Xylenes	ND	0.0250	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2524119
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/25	06/14/25	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/13/25*	*06/14/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/13/25*	*06/14/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2524126
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/25	06/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/25	06/17/25	
Surrogate: n-Nonane		*97.7 %*	*61-141*	*06/13/25*	*06/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2524134
Chloride	**1510**	20.0	1	06/13/25	06/13/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2524119-BLK1)									Prepared: 06/13/25 Analyzed: 06/13/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.510*		*0.500*		*102*	*70-130*			
LCS (2524119-BS1)									Prepared: 06/13/25 Analyzed: 06/13/25
Benzene	2.54	0.0250	2.50		102	70-130			
Ethylbenzene	2.44	0.0250	2.50		97.7	70-130			
Toluene	2.36	0.0250	2.50		94.5	70-130			
o-Xylene	2.29	0.0250	2.50		91.6	70-130			
p,m-Xylene	4.59	0.0500	5.00		91.7	70-130			
Total Xylenes	6.88	0.0250	7.50		91.7	70-130			
Surrogate: Bromofluorobenzene	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.521*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.491*		*0.500*		*98.2*	*70-130*			
Matrix Spike (2524119-MS1)				**Source: E506096-12**					Prepared: 06/13/25 Analyzed: 06/13/25
Benzene	2.64	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.44	0.0250	2.50	ND	97.6	48-130			
o-Xylene	2.40	0.0250	2.50	ND	95.9	43-135			
p,m-Xylene	4.82	0.0500	5.00	ND	96.3	43-135			
Total Xylenes	7.21	0.0250	7.50	ND	96.2	43-135			
Surrogate: Bromofluorobenzene	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.548*		*0.500*		*110*	*70-130*			
Surrogate: Toluene-d8	*0.515*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2524119-MSD1)				**Source: E506096-12**					Prepared: 06/13/25 Analyzed: 06/13/25
Benzene	2.47	0.0250	2.50	ND	98.6	48-131	6.93	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	0.119	27	
Toluene	2.45	0.0250	2.50	ND	97.9	48-130	0.307	24	
o-Xylene	2.50	0.0250	2.50	ND	99.9	43-135	4.13	27	
p,m-Xylene	4.96	0.0500	5.00	ND	99.2	43-135	3.01	27	
Total Xylenes	7.46	0.0250	7.50	ND	99.5	43-135	3.38	27	
Surrogate: Bromofluorobenzene	*0.521*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.7*	*70-130*			
Surrogate: Toluene-d8	*0.491*		*0.500*		*98.1*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2524119-BLK1)									Prepared: 06/13/25 Analyzed: 06/13/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.510*		*0.500*		*102*	*70-130*			
LCS (2524119-BS2)									Prepared: 06/13/25 Analyzed: 06/13/25
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.522*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			
Matrix Spike (2524119-MS2)				**Source: E506096-12**					Prepared: 06/13/25 Analyzed: 06/14/25
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	*0.513*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Matrix Spike Dup (2524119-MSD2)				**Source: E506096-12**					Prepared: 06/13/25 Analyzed: 06/14/25
Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130	4.72	20	
Surrogate: Bromofluorobenzene	*0.526*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2524126-BLK1)									Prepared: 06/13/25 Analyzed: 06/17/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.0*		*50.0*		*96.0*	*61-141*			
LCS (2524126-BS1)									Prepared: 06/13/25 Analyzed: 06/17/25
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	66-144			
Surrogate: n-Nonane	*49.1*		*50.0*		*98.1*	*61-141*			
Matrix Spike (2524126-MS1)				**Source: E506096-17**					Prepared: 06/13/25 Analyzed: 06/17/25
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	56-156			
Surrogate: n-Nonane	*50.0*		*50.0*		*100*	*61-141*			
Matrix Spike Dup (2524126-MSD1)				**Source: E506096-17**					Prepared: 06/13/25 Analyzed: 06/17/25
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	56-156	2.64	20	
Surrogate: n-Nonane	*48.8*		*50.0*		*97.6*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2025 2:50:45PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2524134-BLK1)									Prepared: 06/13/25 Analyzed: 06/13/25
Chloride	ND	20.0							
LCS (2524134-BS1)									Prepared: 06/13/25 Analyzed: 06/13/25
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2524134-MS1)				**Source: E506096-02**					Prepared: 06/13/25 Analyzed: 06/13/25
Chloride	499	20.0	250	231	108	80-120			
Matrix Spike Dup (2524134-MSD1)				**Source: E506096-02**					Prepared: 06/13/25 Analyzed: 06/13/25
Chloride	494	20.0	250	231	106	80-120	1.01	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/18/25 14:50

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: Devon Energy Production Co.	Lab WO# E506096 Job Number 01058.0007	1D 2D 3D Std: x	NM: x CO UT TX
Project:East Pecos 22-3 Produced Water Gathering Lin	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information / **Analysis and Method** / **EPA Program**

EPA Program: SDWA | CWA | RCRA; Compliance Y or N; PWSID #

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Sample Temp	Remarks
10:28	6/11/2025	S	1	BH14	0.5'	1								X		4.4	
10:32	6/11/2025	S	1	BH14	1'	2								X		4.5	
10:36	6/11/2025	S	1	BH14	2'	3								X		4.1	
10:40	6/11/2025	S	1	BH14	3'	4								X		2.9	
10:44	6/11/2025	S	1	BH14	4'	5								X		4.7	
12:04	6/11/2025	S	1	BH15	0.5'	6								X		3.3	
12:08	6/11/2025	S	1	BH15	1'	7								X		3.9	
12:12	6/11/2025	S	1	BH15	2'	8								X		2.5	
12:16	6/11/2025	S	1	BH15	3'	9								X		2.7	
12:20	6/11/2025	S	1	BH15	4'	10								X		4.7	

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06/12/25	7:00	Michelle Gonzales	6-12-25	0700
Michelle Gonzales	6-12-25	1605	Marissa Gonzales	6-12-25	1605
Marissa Gonzales	6-12-25	1900	Richard Gonzales	6-12-25	1900
Richard Gonzales	6-12-25	0030	Cailey Main	6-13-25	700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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Analytical Laboratory

Chain of Custody

E501096 CM 6/13/25

Client Information	Invoice Information	Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC.	Company: Devon Energy Production Co.	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.	E501096	01058.0007				x	x					
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220												
Address: 13000 W County Rd 100	Phone: 575-885-7502												
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com												
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496												
Email: NMTXGeoGroup@etechenv.com													

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
15:04	6/11/2025	S	1	BH16	0.5'	11									X			4.2	
15:08	6/11/2025	S	1	BH16	1'	12									X			3.8	
15:12	6/11/2025	S	1	BH16	2'	13									X			4.3	
15:16	6/11/2025	S	1	BH16	3'	14									X			3.9	
15:20	6/11/2025	S	1	BH16	4'	15									X			4.3	
13:05	6/11/2025	S	1	BH17	0.5'	16									X			3.6	
13:10	6/11/2025	S	1	BH17	1'	17									X			4.0	
13:15	6/11/2025	S	1	BH17	2'	18									X			3.4	
13:20	6/11/2025	S	1	BH17	3'	19									X			4.1	
13:25	6/11/2025	S	1	BH17	4'	20									X			4.2	

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance | Y | or | N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

	Date	Time		Date	Time
Relinquished by: (Signature)	06112125	7:00	Received by: (Signature) Michelle Gonzales	6-12-25	0700
Relinquished by: (Signature) Michelle Gonzales	6-12-25	1605	Received by: (Signature) Marissa Gonzales	6-12-25	1605
Relinquished by: (Signature) Marissa Gonzales	6-12-25	1900	Received by: (Signature) Richard Gonzales	6-12-25	1900
Relinquished by: (Signature) Richard Gonzales	6-12-25	0030	Received by: (Signature) Caitlin Mair	6.13.25	700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 6/13/2025 1:45:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/13/25 07:00	Work Order ID:	E506096
Phone:	(575) 200-6754	Date Logged In:	06/12/25 14:42	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	06/19/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: ~~Devon Energy Production Co.~~ WPX	Lab WO# E506096	Job Number 10058.0007	1D 2D 3D Std: x	NM x, CO, UT, TX
Project:East Pecos 22-3 Produced Water Gathering Lin	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Sample Temp	Remarks
10:28	6/11/2025	S	1	BH14	0.5'	1								X		4.4	Corrected
10:32	6/11/2025	S	1	BH14	1'	2								X		4.5	Invoice Company
10:36	6/11/2025	S	1	BH14	2'	3								X		4.1	Per E.R.
10:40	6/11/2025	S	1	BH14	3'	4								X		2.9	6/16/25 CM
10:44	6/11/2025	S	1	BH14	4'	5								X		4.7	
12:04	6/11/2025	S	1	BH15	0.5'	6								X		3.3	
12:08	6/11/2025	S	1	BH15	1'	7								X		3.9	
12:12	6/11/2025	S	1	BH15	2'	8								X		2.5	
12:16	6/11/2025	S	1	BH15	3'	9								X		2.7	
12:20	6/11/2025	S	1	BH15	4'	10								X		4.7	

Additional Instructions:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Edyte Konan~~	06/12/25	7:00	Michelle Gonzales	6.12.25	0700
Michelle Gonzales	6.12.25	1605	Marissa Gonzales	6-12-25	1605
Marissa Gonzales	6-12-25	1900	Richard Gonzales	6-12-25	1900
Richard Gonzales	6-12-25	2030	Caitlin Mair	6.13.25	700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) / N

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 897 of 1081

envirotech
Analytical Laboratory

Chain of Custody

Page 2 of 2

E5016096 CM 6/13/25

Client Information	Invoice Information	Lab Use Only		TAT				State				
Client: WPX Energy Permian, LLC.	Company: ~~Devon Energy Production Co.~~ WPX	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.	E5016097	01058.0007				x	x				
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220											
Address: 13000 W County Rd 100	Phone: 575-885-7502											
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com											
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496											
Email: NMTXGeoGroup@etechenv.com												

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
15:04	6/11/2025	S	1	BH16	0.5'	11									X			4.2	
15:08	6/11/2025	S	1	BH16	1'	12									X			3.8	
15:12	6/11/2025	S	1	BH16	2'	13									X			4.3	
15:16	6/11/2025	S	1	BH16	3'	14									X			3.9	
15:20	6/11/2025	S	1	BH16	4'	15									X			4.3	
13:05	6/11/2025	S	1	BH17	0.5'	16									X			3.6	
13:10	6/11/2025	S	1	BH17	1'	17									X			4.0	
13:15	6/11/2025	S	1	BH17	2'	18									X			3.4	
13:20	6/11/2025	S	1	BH17	3'	19									X			4.1	
13:25	6/11/2025	S	1	BH17	4'	20									X			4.2	

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance | Y | or | N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06112125	7:00	Michelle Gonzales	6-12-25	0700
Michelle Gonzales	6-12-25	1605	Marissa Gonzales	6-12-25	1605
Marissa Gonzales	6-12-25	1900	Richard Gonzales	6-12-25	1900
Richard Gonzales	6-12-25	0030	Caitlin Mair	6-13-25	700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only

Received on ice: (Y) / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Received by OCD: 9/8/2025 10:43:48 AM

Released to Imaging: 9/30/2025 3:18:39 PM

Report to:

Anna Byers






5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506127
Job Number:	01058-0007
Received:	6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/20/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506127
Date Received: 6/16/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 8:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 13:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH18 0.5'	E506127-01A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH18 4'	E506127-02A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH19 0.5'	E506127-03A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH19 3'	E506127-04A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH19 4'	E506127-05A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH20 0.5'	E506127-06A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH20 3'	E506127-07A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH20 4'	E506127-08A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH21 0.5'	E506127-09A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH21 4'	E506127-10A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH22 0.5'	E506127-11A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH22 4'	E506127-12A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH23 0.5'	E506127-13A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH23 2'	E506127-14A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.
BH23 4'	E506127-15A	Soil	06/12/25	06/16/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH18 0.5'

E506127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*80.5 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*114 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**261**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH18 4'

E506127-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*118 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**1850**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH19 0.5'

E506127-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*115 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**2120**	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH19 3'

E506127-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*83.5 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*113 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**2540**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH19 4'

E506127-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.0 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**4420**	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH20 0.5'

E506127-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.5 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*106 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**372**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH20 3'

E506127-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**2250**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH20 4'

E506127-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*81.6 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*117 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**2200**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH21 0.5'

E506127-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.5 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*81.6 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*115 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**472**	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH21 4'

E506127-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**831**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH22 0.5'

E506127-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.1 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**215**	20.0	1	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH22 4'

E506127-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*83.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**1040**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH23 0.5'

E506127-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*81.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	ND	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH23 2'

E506127-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*81.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*115 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**671**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

BH23 4'

E506127-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.1 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*114 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**338**	200	10	06/17/25	06/17/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525035-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
LCS (2525035-BS1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	5.36	0.0250	5.00		107	70-130			
Ethylbenzene	5.27	0.0250	5.00		105	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.29	0.0250	5.00		106	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.2*	*70-130*			
Matrix Spike (2525035-MS1)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	5.32	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.22	0.0250	5.00	ND	104	70-130			
Toluene	5.27	0.0250	5.00	ND	105	70-130			
o-Xylene	5.25	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			
Matrix Spike Dup (2525035-MSD1)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	4.96	0.0250	5.00	ND	99.3	70-130	7.02	27	
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	70-130	6.65	26	
Toluene	4.92	0.0250	5.00	ND	98.5	70-130	6.84	20	
o-Xylene	4.90	0.0250	5.00	ND	98.0	70-130	6.87	25	
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130	6.49	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	70-130	6.61	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		*8.00*		*97.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525035-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.83*		*8.00*		*85.4*	*70-130*			
LCS (2525035-BS2)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.8*	*70-130*			
Matrix Spike (2525035-MS2)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.93*		*8.00*		*86.6*	*70-130*			
Matrix Spike Dup (2525035-MSD2)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	0.157	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.16*		*8.00*		*89.4*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525058-BLK1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.6*		*50.0*		*117*	*61-141*			
LCS (2525058-BS1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	277	25.0	250		111	66-144			
Surrogate: n-Nonane	*56.9*		*50.0*		*114*	*61-141*			
Matrix Spike (2525058-MS1)				**Source: E506127-03**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	56-156			
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*61-141*			
Matrix Spike Dup (2525058-MSD1)				**Source: E506127-03**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	0.0193	20	
Surrogate: n-Nonane	*57.0*		*50.0*		*114*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:24:39PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525049-BLK1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	ND	20.0							
LCS (2525049-BS1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2525049-MS1)				**Source: E506127-05**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	4480	100	250	4420	22.7	80-120			M4
Matrix Spike Dup (2525049-MSD1)				**Source: E506127-05**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	4440	100	250	4420	10.6	80-120	0.682	20	M4

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 13:24

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

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Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only		TAT				State				
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.	E506127	01058-0007				x	x				
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220											
Address: 13000 W County Rd 100	Phone: 575-885-7502											
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com											
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496											
Email: NMTXGeoGroup@etechenv.com												

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
8:35	6/12/2025	S	1	BH18	0.5'	1									X			4.5	
8:55	6/12/2025	S	1	BH18	4'	2									X			4.9	
9:32	6/12/2025	S	1	BH19	0.5'	3									X			5.1	
9:44	6/12/2025	S	1	BH19	3'	4									X			4.8	
9:48	6/12/2025	S	1	BH19	4'	5									X			5.0	
10:35	6/12/2025	S	1	BH20	0.5'	6									X			5.5	
10:50	6/12/2025	S	1	BH20	3'	7									X			5.0	
10:55	6/12/2025	S	1	BH20	4'	8									X			4.8	
11:34	6/12/2025	S	1	BH21	0.5'	9									X			4.6	
11:50	6/12/2025	S	1	BH21	4'	10									X			4.4	

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance | Y | or | N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06/13/25		Michelle Gonzales	6-13-25	1900
Michelle Gonzales	6-14-25	0240	[signature]	6-16-25	0800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only

Received on ice: (Y) N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO# E506127 / Job Number 01058-0007	1D 2D 3D Std: x	NM: x; CO UT TX
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
13:19	6/12/2025	S	1	BH22	0.5'	11									X			4.4	
13:34	6/12/2025	S	1	BH22	4'	12									X			5.1	
13:36	6/12/2025	S	1	BH23	0.5'	13									X			4.6	
13:42	6/12/2025	S	1	BH23	2'	14									X			4.2	
13:45	6/12/2025	S	1	BH23	4'	15									X			3.9	

06/13/2025

EPA Program: SDWA / CWA / RCRA

Compliance: Y or N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

	Date	Time		Date	Time
Relinquished by: (Signature) [signature]	06/13/2025		Received by: (Signature) Michelle Gonzales	6-13-25	1900
Relinquished by: (Signature) Michelle Gonzales	6-14-25	0240	Received by: (Signature) Caitlin Mair	6-16-25	0800
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

Lab Use Only

Received on ice: 0 / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 6/16/2025 10:37:27AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/16/25 08:00	Work Order ID:	E506127
Phone:	(575) 200-6754	Date Logged In:	06/16/25 08:24	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	06/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506130
Job Number:	01058-0007
Received:	6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/20/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506130
Date Received: 6/16/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 8:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH24 0.5'	E506130-01A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH24 1'	E506130-02A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH24 2'	E506130-03A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH24 3'	E506130-04A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH24 4'	E506130-05A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

BH24 0.5'

E506130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*92.6 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**87.3**	40.0	2	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

BH24 1'

E506130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*91.1 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	ND	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

BH24 2'

E506130-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*92.9 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**284**	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

BH24 3'

E506130-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*93.0 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**341**	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

BH24 4'

E506130-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*97.4 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**276**	200	10	06/17/25	06/17/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525036-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.528*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
LCS (2525036-BS1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	2.33	0.0250	2.50		93.2	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.4	70-130			
Toluene	2.21	0.0250	2.50		88.5	70-130			
o-Xylene	2.20	0.0250	2.50		88.0	70-130			
p,m-Xylene	4.41	0.0500	5.00		88.1	70-130			
Total Xylenes	6.61	0.0250	7.50		88.1	70-130			
Surrogate: Bromofluorobenzene	*0.533*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			
Matrix Spike (2525036-MS1)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	2.42	0.0250	2.50	ND	96.8	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	97.9	45-135			
Toluene	2.32	0.0250	2.50	ND	93.0	48-130			
o-Xylene	2.35	0.0250	2.50	ND	94.2	43-135			
p,m-Xylene	4.73	0.0500	5.00	ND	94.7	43-135			
Total Xylenes	7.09	0.0250	7.50	ND	94.5	43-135			
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2525036-MSD1)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	2.33	0.0250	2.50	ND	93.0	48-131	4.00	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.1	45-135	5.05	27	
Toluene	2.23	0.0250	2.50	ND	89.0	48-130	4.35	24	
o-Xylene	2.25	0.0250	2.50	ND	89.9	43-135	4.67	27	
p,m-Xylene	4.46	0.0500	5.00	ND	89.2	43-135	5.98	27	
Total Xylenes	6.71	0.0250	7.50	ND	89.4	43-135	5.55	27	
Surrogate: Bromofluorobenzene	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.503*		*0.500*		*101*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525036-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.528*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
LCS (2525036-BS2)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	59.4	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			
Matrix Spike (2525036-MS2)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	*0.533*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			
Matrix Spike Dup (2525036-MSD2)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	8.22	20	
Surrogate: Bromofluorobenzene	*0.524*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525059-BLK1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.7*		*50.0*		*91.4*	*61-141*			
LCS (2525059-BS1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	66-144			
Surrogate: n-Nonane	*47.4*		*50.0*		*94.7*	*61-141*			
Matrix Spike (2525059-MS1)				**Source: E506131-04**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156			
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*61-141*			
Matrix Spike Dup (2525059-MSD1)				**Source: E506131-04**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.6	56-156	1.72	20	
Surrogate: n-Nonane	*49.5*		*50.0*		*99.0*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:49:09PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525050-BLK1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	ND	20.0							
LCS (2525050-BS1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2525050-MS1)				**Source: E506130-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	634	100	250	284	140	80-120			M2
Matrix Spike Dup (2525050-MSD1)				**Source: E506130-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	585	100	250	284	120	80-120	8.09	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:49

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only		TAT				State				
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.	E506130	01058-0007				x	x				
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220											
Address: 13000 W County Rd 100	Phone: 575-885-7502											
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com											
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496											
Email: NMTXGeoGroup@etechenv.com												

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
9:40	6/13/2025	S	1	BH24	0.5'	1									X			4.2	
9:45	6/13/2025	S	1	BH24	1'	2									X			4.6	
9:50	6/13/2025	S	1	BH24	2'	3									X			4.5	
9:55	6/13/2025	S	1	BH24	3'	4									X			5.3	
10:00	6/13/2025	S	1	BH24	4'	5									X			4.9	

06/13/2025

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Edyte~~	06/13/2025		Michelle Gonzales	6-13-25	1900
Michelle Gonzales	6-14-25	0240	Caitlin Mars	6-16-25	0800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only

Received on ice: Y / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 6/16/2025 10:31:50AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/16/25 08:00	Work Order ID:	E506130
Phone:	(575) 200-6754	Date Logged In:	06/16/25 09:03	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	06/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506128
Job Number:	01058-0007
Received:	6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/20/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506128
Date Received: 6/16/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 8:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25 0.5'	E506128-01A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH25 1'	E506128-02A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH25 2'	E506128-03A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH25 3'	E506128-04A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH25 4'	E506128-05A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

BH25 0.5'

E506128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525057
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*96.4 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525048
Chloride	**610**	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

BH25 1'

E506128-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525057
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*96.5 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525048
Chloride	**824**	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

BH25 2'

E506128-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525057
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*95.6 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525048
Chloride	**1470**	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

BH25 3'

E506128-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525057
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*97.7 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525048
Chloride	**1810**	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

BH25 4'

E506128-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525034
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525057
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*95.2 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525048
Chloride	**1530**	200	10	06/17/25	06/18/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525034-BLK1)									Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*8.30*		*8.00*		*104*	*70-130*			
LCS (2525034-BS1)									Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	5.45	0.0250	5.00		109	70-130			
Ethylbenzene	5.34	0.0250	5.00		107	70-130			
Toluene	5.40	0.0250	5.00		108	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.28*		*8.00*		*104*	*70-130*			
Matrix Spike (2525034-MS1)				**Source: E506124-08**					Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	5.58	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.43	0.0250	5.00	ND	109	70-130			
Toluene	5.52	0.0250	5.00	ND	110	70-130			
o-Xylene	5.35	0.0250	5.00	ND	107	70-130			
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130			
Total Xylenes	16.3	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.21*		*8.00*		*103*	*70-130*			
Matrix Spike Dup (2525034-MSD1)				**Source: E506124-08**					Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	5.60	0.0250	5.00	ND	112	70-130	0.355	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	0.654	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	0.368	20	
o-Xylene	5.39	0.0250	5.00	ND	108	70-130	0.669	25	
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	0.620	23	
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130	0.636	26	
Surrogate: 4-Bromochlorobenzene-PID	*8.29*		*8.00*		*104*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525034-BLK1)									Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS (2525034-BS2)									Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.3*	*70-130*			
Matrix Spike (2525034-MS2)				**Source: E506124-08**					Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.73*		*8.00*		*96.6*	*70-130*			
Matrix Spike Dup (2525034-MSD2)				**Source: E506124-08**					Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.3	70-130	0.0448	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.75*		*8.00*		*96.9*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525057-BLK1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.1*		*50.0*		*96.3*	*61-141*			
LCS (2525057-BS1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	66-144			
Surrogate: n-Nonane	*47.7*		*50.0*		*95.4*	*61-141*			
Matrix Spike (2525057-MS1)				**Source: E506123-11**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	*47.0*		*50.0*		*93.9*	*61-141*			
Matrix Spike Dup (2525057-MSD1)				**Source: E506123-11**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	56-156	1.00	20	
Surrogate: n-Nonane	*47.5*		*50.0*		*95.0*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:52:29PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525048-BLK1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	ND	20.0							
LCS (2525048-BS1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2525048-MS1)				**Source: E506123-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	549	20.0	250	310	95.7	80-120			
Matrix Spike Dup (2525048-MSD1)				**Source: E506123-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	560	20.0	250	310	100	80-120	1.99	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:52

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO# E506128 / Job Number 01058-0007	1D 2D 3D Std: x	NM: x; CO UT TX
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Chloride 300.0; TCEQ 1005 - TX; RCRA 8 Metals; BGDOC - NM; BGDOC - TX

EPA Program: SDWA | CWA | RCRA; Compliance Y or N; PWSID #

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	BGDOC - NM	Sample Temp	Remarks
10:20	6/13/2025	S	1	BH25	0.5'	1	X	5.3	
10:25	6/13/2025	S	1	BH25	1'	2	X	5.1	
10:30	6/13/2025	S	1	BH25	2'	3	X	5.0	
10:35	6/13/2025	S	1	BH25	3'	4	X	5.2	
10:40	6/13/2025	S	1	BH25	4'	5	X	5.3	

06/13/2025

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
~~Edyte Konan~~	06/13/25		Michelle Gonzales	6-13-25	1900
Michelle Gonzales	6-14-25	0240	Caitlin Mars	6-16-25	0800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 6/16/2025 10:22:25AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/16/25 08:00	Work Order ID:	E506128
Phone:	(575) 200-6754	Date Logged In:	06/16/25 08:50	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	06/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

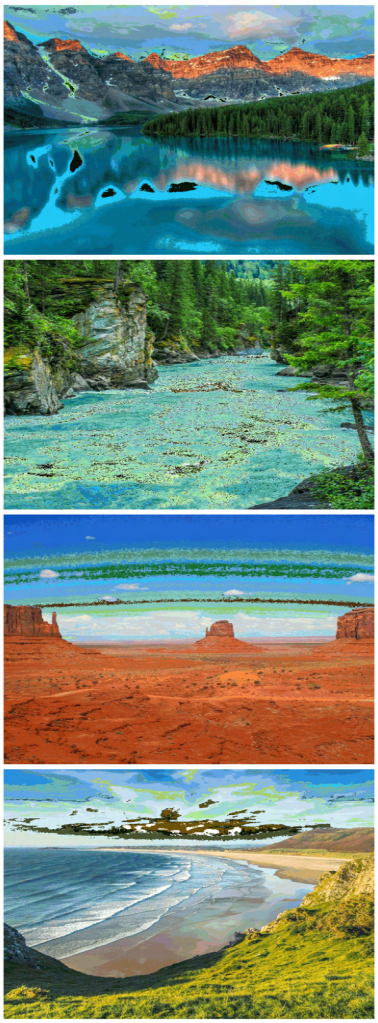
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506131
Job Number:	01058-0007
Received:	6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/20/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506131
Date Received: 6/16/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 8:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH26 0.5'	E506131-01A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH26 1'	E506131-02A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH26 2'	E506131-03A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH26 3'	E506131-04A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH26 4'	E506131-05A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

BH26 0.5'

E506131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*96.4 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	ND	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

BH26 1'

E506131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*97.7 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	ND	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

BH26 2'

E506131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*94.1 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**376**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

BH26 3'

E506131-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*98.1 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**1160**	200	10	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

BH26 4'

E506131-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2525036
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2525059
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/19/25	
Surrogate: n-Nonane		*98.6 %*	*61-141*	*06/17/25*	*06/19/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2525050
Chloride	**1700**	200	10	06/17/25	06/17/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525036-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.528*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
LCS (2525036-BS1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	2.33	0.0250	2.50		93.2	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.4	70-130			
Toluene	2.21	0.0250	2.50		88.5	70-130			
o-Xylene	2.20	0.0250	2.50		88.0	70-130			
p,m-Xylene	4.41	0.0500	5.00		88.1	70-130			
Total Xylenes	6.61	0.0250	7.50		88.1	70-130			
Surrogate: Bromofluorobenzene	*0.533*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			
Matrix Spike (2525036-MS1)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	2.42	0.0250	2.50	ND	96.8	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	97.9	45-135			
Toluene	2.32	0.0250	2.50	ND	93.0	48-130			
o-Xylene	2.35	0.0250	2.50	ND	94.2	43-135			
p,m-Xylene	4.73	0.0500	5.00	ND	94.7	43-135			
Total Xylenes	7.09	0.0250	7.50	ND	94.5	43-135			
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2525036-MSD1)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Benzene	2.33	0.0250	2.50	ND	93.0	48-131	4.00	23	
Ethylbenzene	2.33	0.0250	2.50	ND	93.1	45-135	5.05	27	
Toluene	2.23	0.0250	2.50	ND	89.0	48-130	4.35	24	
o-Xylene	2.25	0.0250	2.50	ND	89.9	43-135	4.67	27	
p,m-Xylene	4.46	0.0500	5.00	ND	89.2	43-135	5.98	27	
Total Xylenes	6.71	0.0250	7.50	ND	89.4	43-135	5.55	27	
Surrogate: Bromofluorobenzene	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.503*		*0.500*		*101*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525036-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.528*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
LCS (2525036-BS2)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	59.4	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			
Matrix Spike (2525036-MS2)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	*0.533*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			
Matrix Spike Dup (2525036-MSD2)				**Source: E506130-04**					Prepared: 06/16/25 Analyzed: 06/17/25
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	8.22	20	
Surrogate: Bromofluorobenzene	*0.524*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525059-BLK1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.7*		*50.0*		*91.4*	*61-141*			
LCS (2525059-BS1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	66-144			
Surrogate: n-Nonane	*47.4*		*50.0*		*94.7*	*61-141*			
Matrix Spike (2525059-MS1)				**Source: E506131-04**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	56-156			
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*61-141*			
Matrix Spike Dup (2525059-MSD1)				**Source: E506131-04**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.6	56-156	1.72	20	
Surrogate: n-Nonane	*49.5*		*50.0*		*99.0*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 12:45:59PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525050-BLK1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	ND	20.0							
LCS (2525050-BS1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2525050-MS1)				**Source: E506130-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	634	100	250	284	140	80-120			M2
Matrix Spike Dup (2525050-MSD1)				**Source: E506130-03**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	585	100	250	284	120	80-120	8.09	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 12:45

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO# E506131 / Job Number 01058-0007	1D 2D 3D Std: x	NM: x; CO UT TX
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	Sample Temp	Remarks
11:40	6/13/2025	S	1	BH26	0.5'	1								X		5.0	
11:45	6/13/2025	S	1	BH26	1'	2								X		4.9	
11:50	6/13/2025	S	1	BH26	2'	3								X		5.3	
11:55	6/13/2025	S	1	BH26	3'	4								X		5.2	
12:00	6/13/2025	S	1	BH26	4'	5								X		4.6	

06/13/2025

SDWA | CWA | RCRA
Compliance Y or N
PWSID #

Additional Instructions:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06/13/2025		Michelle Gonzales	6-13-25	1900
Michelle Gonzales	6-14-25	0240	Caitlin Mars	6-16-25	0800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: Y / N

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 6/16/2025 10:33:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/16/25 08:00	Work Order ID:	E506131
Phone:	(575) 200-6754	Date Logged In:	06/16/25 09:04	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	06/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E506129
Job Number:	01058-0007
Received:	6/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/20/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E506129
Date Received: 6/16/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/16/2025 8:00:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 13:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH27 0.5'	E506129-01A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH27 1'	E506129-02A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH27 2'	E506129-03A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH27 3'	E506129-04A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.
BH27 4'	E506129-05A	Soil	06/13/25	06/16/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

BH27 0.5'

E506129-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*80.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	ND	100	5	06/17/25	06/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

BH27 1'

E506129-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*82.3 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*125 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	ND	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

BH27 2'

E506129-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*83.2 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*114 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	ND	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

BH27 3'

E506129-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*83.9 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*113 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**259**	200	10	06/17/25	06/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

BH27 4'

E506129-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Benzene	ND	0.0250	1	06/16/25	06/18/25	
Ethylbenzene	ND	0.0250	1	06/16/25	06/18/25	
Toluene	ND	0.0250	1	06/16/25	06/18/25	
o-Xylene	ND	0.0250	1	06/16/25	06/18/25	
p,m-Xylene	ND	0.0500	1	06/16/25	06/18/25	
Total Xylenes	ND	0.0250	1	06/16/25	06/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2525035
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/16/25	06/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.1 %*	*70-130*	*06/16/25*	*06/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2525058
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/25	06/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/25	06/20/25	
Surrogate: n-Nonane		*114 %*	*61-141*	*06/17/25*	*06/20/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2525049
Chloride	**402**	200	10	06/17/25	06/18/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525035-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
LCS (2525035-BS1)									Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	5.36	0.0250	5.00		107	70-130			
Ethylbenzene	5.27	0.0250	5.00		105	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
o-Xylene	5.29	0.0250	5.00		106	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.2*	*70-130*			
Matrix Spike (2525035-MS1)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	5.32	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.22	0.0250	5.00	ND	104	70-130			
Toluene	5.27	0.0250	5.00	ND	105	70-130			
o-Xylene	5.25	0.0250	5.00	ND	105	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			
Matrix Spike Dup (2525035-MSD1)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Benzene	4.96	0.0250	5.00	ND	99.3	70-130	7.02	27	
Ethylbenzene	4.88	0.0250	5.00	ND	97.7	70-130	6.65	26	
Toluene	4.92	0.0250	5.00	ND	98.5	70-130	6.84	20	
o-Xylene	4.90	0.0250	5.00	ND	98.0	70-130	6.87	25	
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130	6.49	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.7	70-130	6.61	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		*8.00*		*97.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525035-BLK1)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.83*		*8.00*		*85.4*	*70-130*			
LCS (2525035-BS2)									Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.8*	*70-130*			
Matrix Spike (2525035-MS2)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.93*		*8.00*		*86.6*	*70-130*			
Matrix Spike Dup (2525035-MSD2)				**Source: E506127-04**					Prepared: 06/16/25 Analyzed: 06/18/25
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	0.157	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.16*		*8.00*		*89.4*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525058-BLK1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*58.6*		*50.0*		*117*	*61-141*			
LCS (2525058-BS1)									Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	277	25.0	250		111	66-144			
Surrogate: n-Nonane	*56.9*		*50.0*		*114*	*61-141*			
Matrix Spike (2525058-MS1)				**Source: E506127-03**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	56-156			
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*61-141*			
Matrix Spike Dup (2525058-MSD1)				**Source: E506127-03**					Prepared: 06/17/25 Analyzed: 06/19/25
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	0.0193	20	
Surrogate: n-Nonane	*57.0*		*50.0*		*114*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/20/2025 1:27:08PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2525049-BLK1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	ND	20.0							
LCS (2525049-BS1)									Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2525049-MS1)				**Source: E506127-05**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	4480	100	250	4420	22.7	80-120			M4
Matrix Spike Dup (2525049-MSD1)				**Source: E506127-05**					Prepared: 06/17/25 Analyzed: 06/17/25
Chloride	4440	100	250	4420	10.6	80-120	0.682	20	M4

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/20/25 13:27

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.	E506129	21058-0007				x	x					
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220												
Address: 13000 W County Rd 100	Phone: 575-885-7502												
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com												
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496												
Email: NMTXGeoGroup@etechenv.com													

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
12:20	6/13/2025	S	1	BH27	0.5'	1									X			5.1	
12:25	6/13/2025	S	1	BH27	1'	2									X			5.3	
12:30	6/13/2025	S	1	BH27	2'	3									X			5.5	
12:35	6/13/2025	S	1	BH27	3'	4									X			4.9	
12:40	6/13/2025	S	1	BH27	4'	5									X			4.8	

06/13/2025

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Additional Instructions:

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

Sampled by: Edyte Konan

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06/13/2025		Michelle Gonzales	6-13-25	1900
Michelle Gonzales	6-14-25	0240	Caitlin Mars	6-16-25	0800
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only

Received on ice: Y / N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Envirotech Analytical Laboratory

Printed: 6/16/2025 10:28:24AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	06/16/25 08:00	Work Order ID:	E506129
Phone:	(575) 200-6754	Date Logged In:	06/16/25 08:56	Logged In By:	Noe Soto
Email:	anna@etechenv.com	Due Date:	06/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E507149
Job Number:	01058-0007
Received:	7/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/22/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E507149
Date Received: 7/15/2025 6:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2025 6:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	07/22/25 13:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH28 0.5'	E507149-01A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH28 1'	E507149-02A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH28 2'	E507149-03A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH28 3'	E507149-04A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH28 4'	E507149-05A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH29 0.5'	E507149-06A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH29 1'	E507149-07A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH29 2'	E507149-08A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH29 3'	E507149-09A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.
BH29 4'	E507149-10A	Soil	07/10/25	07/15/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH28 0.5'

E507149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*105 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	ND	100	5	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH28 1'

E507149-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*114 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*114 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*105 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	ND	100	5	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH28 2'

E507149-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**466**	40.0	2	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH28 3'

E507149-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*105 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**744**	200	10	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH28 4'

E507149-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**833**	200	10	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH29 0.5'

E507149-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/18/25	
Toluene	ND	0.0250	1	07/16/25	07/18/25	
o-Xylene	ND	0.0250	1	07/16/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/18/25	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*07/16/25*	*07/18/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	ND	100	5	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH29 1'

E507149-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*98.3 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**120**	40.0	2	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH29 2'

E507149-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**200**	40.0	2	07/17/25	07/18/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH29 3'

E507149-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*95.0 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**282**	20.0	1	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

BH29 4'

E507149-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: 1,2-Dichloroethane-d4		*96.6 %*	*70-130*	*07/16/25*	*07/19/25*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*07/16/25*	*07/19/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*100 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529149
Chloride	**281**	20.0	1	07/17/25	07/18/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529088-BLK1)									Prepared: 07/16/25 Analyzed: 07/18/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2529088-BS1)									Prepared: 07/16/25 Analyzed: 07/18/25
Benzene	2.34	0.0250	2.50		93.5	70-130			
Ethylbenzene	2.45	0.0250	2.50		97.8	70-130			
Toluene	2.32	0.0250	2.50		92.8	70-130			
o-Xylene	2.35	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.71	0.0500	5.00		94.2	70-130			
Total Xylenes	7.05	0.0250	7.50		94.1	70-130			
Surrogate: Bromofluorobenzene	*0.558*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			
Matrix Spike (2529088-MS1)				**Source: E507149-06**					Prepared: 07/16/25 Analyzed: 07/18/25
Benzene	2.16	0.0250	2.50	ND	86.5	48-131			
Ethylbenzene	2.33	0.0250	2.50	ND	93.1	45-135			
Toluene	2.20	0.0250	2.50	ND	87.8	48-130			
o-Xylene	2.27	0.0250	2.50	ND	90.7	43-135			
p,m-Xylene	4.52	0.0500	5.00	ND	90.5	43-135			
Total Xylenes	6.79	0.0250	7.50	ND	90.5	43-135			
Surrogate: Bromofluorobenzene	*0.562*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.8*	*70-130*			
Surrogate: Toluene-d8	*0.523*		*0.500*		*105*	*70-130*			
Matrix Spike Dup (2529088-MSD1)				**Source: E507149-06**					Prepared: 07/16/25 Analyzed: 07/18/25
Benzene	2.24	0.0250	2.50	ND	89.7	48-131	3.61	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135	4.41	27	
Toluene	2.29	0.0250	2.50	ND	91.4	48-130	4.04	24	
o-Xylene	2.38	0.0250	2.50	ND	95.2	43-135	4.88	27	
p,m-Xylene	4.73	0.0500	5.00	ND	94.7	43-135	4.55	27	
Total Xylenes	7.11	0.0250	7.50	ND	94.9	43-135	4.66	27	
Surrogate: Bromofluorobenzene	*0.560*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.526*		*0.500*		*105*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529088-BLK1)									Prepared: 07/16/25 Analyzed: 07/18/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2529088-BS2)									Prepared: 07/16/25 Analyzed: 07/18/25
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	*0.558*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.551*		*0.500*		*110*	*70-130*			
Matrix Spike (2529088-MS2)				**Source: E507149-06**					Prepared: 07/16/25 Analyzed: 07/18/25
Gasoline Range Organics (C6-C10)	55.3	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	*0.561*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.542*		*0.500*		*108*	*70-130*			
Matrix Spike Dup (2529088-MSD2)				**Source: E507149-06**					Prepared: 07/16/25 Analyzed: 07/18/25
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.1	70-130	15.0	20	
Surrogate: Bromofluorobenzene	*0.555*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: Toluene-d8	*0.538*		*0.500*		*108*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529113-BLK1)									Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.1*		*50.0*		*98.2*	*61-141*			
LCS (2529113-BS1)									Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	247	25.0	250		98.8	66-144			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.5*	*61-141*			
Matrix Spike (2529113-MS1)				**Source: E507148-01**					Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.8	56-156			
Surrogate: n-Nonane	*49.0*		*50.0*		*97.9*	*61-141*			
Matrix Spike Dup (2529113-MSD1)				**Source: E507148-01**					Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	4.61	20	
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 1:33:24PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529149-BLK1)									Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	ND	20.0							
LCS (2529149-BS1)									Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2529149-MS1)				**Source: E507149-09**					Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	523	20.0	250	282	96.6	80-120			
Matrix Spike Dup (2529149-MSD1)				**Source: E507149-09**					Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	533	20.0	250	282	100	80-120	1.82	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	07/22/25 13:33

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO# E507149	Job Number 01058-0007	1D 2D 3D Std: x	NM x, CO, UT, TX
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
12:05	7/10/2025	S	1	BH28	0.5'	1									X			2.0	
12:15	7/10/2025	S	1	BH28	1'	2									X			2.2	
12:30	7/10/2025	S	1	BH28	2'	3									X			3.2	
12:50	7/10/2025	S	1	BH28	3'	4									X			1.0	
13:30	7/10/2025	S	1	BH28	4'	5									X			2.5	
14:45	7/10/2025	S	1	BH29	0.5'	6									X			3.7	
14:55	7/10/2025	S	1	BH29	1'	7									X			3.7	
15:15	7/10/2025	S	1	BH29	2'	8									X			4.0	
15:30	7/10/2025	S	1	BH29	3'	9									X			1.8	
15:50	7/10/2025	S	1	BH29	4'	10									X			2.7	

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance | Y | or | N

PWSID #

Additional Instructions:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Haleigh Blume	7/11/2025	1100	Michelle Gonzales	7-14-25	1100
Michelle Gonzales	7-14-25	1650		7.14.25	1700
	7.14.25	2300		7.15.25	0645
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) N

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 7/15/2025 10:55:48AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/15/25 06:45	Work Order ID:	E507149
Phone:	(575) 200-6754	Date Logged In:	07/14/25 14:43	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	07/22/25 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Anna Byers









5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:	East Pecos 22-3 Produced Water Gathering Line
Work Order:	E507148
Job Number:	01058-0007
Received:	7/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/22/25

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos 22-3 Produced Water Gathering Line
Workorder: E507148
Date Received: 7/15/2025 6:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2025 6:45:00AM, under the Project Name: East Pecos 22-3 Produced Water Gathering Line.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3 Produced Water Gathering Line apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	07/22/25 06:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH30 0.5'	E507148-01A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH30 1'	E507148-02A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH30 2'	E507148-03A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH30 3'	E507148-04A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH31 0.5'	E507148-05A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH31 1'	E507148-06A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH31 2'	E507148-07A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
BH31 3'	E507148-08A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH30 0.5'

E507148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*96.2 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	ND	100	5	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH30 1'

E507148-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.3 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*98.5 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	ND	100	5	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH30 2'

E507148-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*89.1 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*102 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	**969**	200	10	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH30 3'

E507148-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.8 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*96.1 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	**1530**	200	10	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH31 0.5'

E507148-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.6 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.4 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	ND	200	10	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH31 1'

E507148-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/16/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/16/25	
Toluene	ND	0.0250	1	07/15/25	07/16/25	
o-Xylene	ND	0.0250	1	07/15/25	07/16/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/16/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/16/25	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*07/15/25*	*07/16/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*07/15/25*	*07/16/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	**165**	100	5	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH31 2'

E507148-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*88.2 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*98.0 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	**527**	200	10	07/17/25	07/17/25	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

BH31 3'

E507148-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Benzene	ND	0.0250	1	07/15/25	07/18/25	
Ethylbenzene	ND	0.0250	1	07/15/25	07/18/25	
Toluene	ND	0.0250	1	07/15/25	07/18/25	
o-Xylene	ND	0.0250	1	07/15/25	07/18/25	
p,m-Xylene	ND	0.0500	1	07/15/25	07/18/25	
Total Xylenes	ND	0.0250	1	07/15/25	07/18/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.2 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2529077
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/25	07/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*07/15/25*	*07/18/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2529113
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*07/17/25*	*07/17/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2529131
Chloride	**517**	200	10	07/17/25	07/17/25	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529077-BLK1)									Prepared: 07/15/25 Analyzed: 07/16/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.85*		*8.00*		*98.1*	*70-130*			
LCS (2529077-BS1)									Prepared: 07/15/25 Analyzed: 07/16/25
Benzene	5.51	0.0250	5.00		110	70-130			
Ethylbenzene	5.45	0.0250	5.00		109	70-130			
Toluene	5.48	0.0250	5.00		110	70-130			
o-Xylene	5.48	0.0250	5.00		110	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.5	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.06*		*8.00*		*101*	*70-130*			
Matrix Spike (2529077-MS1)				**Source: E507148-06**					Prepared: 07/15/25 Analyzed: 07/16/25
Benzene	5.37	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130			
Toluene	5.34	0.0250	5.00	ND	107	70-130			
o-Xylene	5.37	0.0250	5.00	ND	107	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.96*		*8.00*		*99.5*	*70-130*			
Matrix Spike Dup (2529077-MSD1)				**Source: E507148-06**					Prepared: 07/15/25 Analyzed: 07/16/25
Benzene	5.89	0.0250	5.00	ND	118	70-130	9.11	27	
Ethylbenzene	5.82	0.0250	5.00	ND	116	70-130	9.32	26	
Toluene	5.86	0.0250	5.00	ND	117	70-130	9.19	20	
o-Xylene	5.84	0.0250	5.00	ND	117	70-130	8.32	25	
p,m-Xylene	11.8	0.0500	10.0	ND	118	70-130	8.98	23	
Total Xylenes	17.6	0.0250	15.0	ND	118	70-130	8.76	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.92*		*8.00*		*99.0*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529077-BLK1)									Prepared: 07/15/25 Analyzed: 07/16/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			
LCS (2529077-BS2)									Prepared: 07/15/25 Analyzed: 07/16/25
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.55*		*8.00*		*94.3*	*70-130*			
Matrix Spike (2529077-MS2)				**Source: E507148-06**					Prepared: 07/15/25 Analyzed: 07/16/25
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			
Matrix Spike Dup (2529077-MSD2)				**Source: E507148-06**					Prepared: 07/15/25 Analyzed: 07/16/25
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.3	70-130	12.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.89*		*8.00*		*98.7*	*70-130*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529113-BLK1)									Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.1*		*50.0*		*98.2*	*61-141*			
LCS (2529113-BS1)									Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	247	25.0	250		98.8	66-144			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.5*	*61-141*			
Matrix Spike (2529113-MS1)				**Source: E507148-01**					Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.8	56-156			
Surrogate: n-Nonane	*49.0*		*50.0*		*97.9*	*61-141*			
Matrix Spike Dup (2529113-MSD1)				**Source: E507148-01**					Prepared: 07/17/25 Analyzed: 07/17/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	4.61	20	
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*61-141*			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	**Reported:**
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	7/22/2025 6:57:07AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2529131-BLK1)									Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	ND	20.0							
LCS (2529131-BS1)									Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2529131-MS1)				**Source: E507148-08**					Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	781	200	250	517	106	80-120			
Matrix Spike Dup (2529131-MSD1)				**Source: E507148-08**					Prepared: 07/17/25 Analyzed: 07/17/25
Chloride	878	200	250	517	144	80-120	11.6	20	M2

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos 22-3 Produced Water Gathering Line	
5315 Buena Vista Dr	Project Number:	01058-0007	**Reported:**
Carlsbad NM, 88220	Project Manager:	Anna Byers	07/22/25 06:57

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Released to Imaging: 9/30/2025 3:18:39 PM
Received by OCD: 9/8/2025 10:43:48 AM

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: WPX Energy Permian, LLC.	Company: WPX Energy Permian, LLC.	Lab WO# E507148	Job Number 01058-0007	1D 2D 3D Std: x	NM: x CO UT TX
Project: East Pecos 22-3 Produced Water Gathering Line	Address: 5315 Buena Vista Dr.			
Project Manager: Anna Byers	City, State, Zip: Carlsbad, NM, 88220			
Address: 13000 W County Rd 100	Phone: 575-885-7502			
City, State, Zip_Odessa,TX, 79765	Email: jim.raley@dvn.com			
Phone: 432-305-6415	Miscellaneous: WO: 21255735; PN: 19381; IN: nAB1614039576 and nAB1616628496			
Email: NMTXGeoGroup@etechenv.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
9:05	7/11/2025	S	1	BH30	0.5'	1									X			30	
9:15	7/11/2025	S	1	BH30	1'	2									X			3.1	
9:40	7/11/2025	S	1	BH30	2'	3									X			2.9	
10:15	7/11/2025	S	1	BH30	3'	4									X			2.6	
11:05	7/11/2025	S	1	BH31	0.5'	5									X			1.7	
11:20	7/11/2025	S	1	BH31	1'	6									X			2.5	
11:40	7/11/2025	S	1	BH31	2'	7									X			3.0	
12:10	7/11/2025	S	1	BH31	3'	8									X			2.8	

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Additional Instructions:

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

Sampled by: Haleigh Blume

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	07/14/2025	1100	Michelle Gonzales	7-14-25	1100
Michelle Gonzales	7-14-25	1650	[signature]	7.14.25	1700
[signature]	7.14.25	2300	[signature]	7.15.25	0645
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

Lab Use Only
Received on ice: (Y) N

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

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

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 7/15/2025 10:54:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/15/25 06:45	Work Order ID:	E507148
Phone:	(575) 200-6754	Date Logged In:	07/14/25 14:37	Logged In By:	Caitlin Mars
Email:	anna@etechenv.com	Due Date:	07/22/25 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filtration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

APPENDIX I

Correspondence & Notifications

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

QUESTIONS

Action 343897

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 343897
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 2016 MAJOR A SWS @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	*Unavailable.*
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the southeast GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line

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CONDITIONS

Action 343897

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 343897
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/13/2024

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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS

Action 345860

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 345860
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 2016 MAJOR A SWS @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	*Unavailable.*
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/22/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the southeast GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line

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State of New Mexico
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CONDITIONS

Action 345860

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	246289
	Action Number: 345860
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/20/2024

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

QUESTIONS

Action 345864

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 345864
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 2016 MAJOR A SWS @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	*Unavailable.*
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/23/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Gilbert Moreno at 432-305-6414 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the southeast GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line

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

CONDITIONS

Action 345864

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 345864
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/20/2024

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Santa Fe, NM 87505

QUESTIONS

Action 397152

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397152
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004316,-103.955588).

District I
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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397152
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/30/2024

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Santa Fe, NM 87505

QUESTIONS

Action 397231

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397231
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004316,-103.955588).

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 397231

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397231
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/30/2024

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

QUESTIONS

Action 397236

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397236
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004316,-103.955588).

District I
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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397236
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/30/2024

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 397242

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397242
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/07/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004316,-103.955588).

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397242
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/30/2024

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

QUESTIONS

Action 397251

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397251
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1614039576**
Incident Name	**NAB1614039576 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**04/15/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/08/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004316,-103.955588).

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

CONDITIONS

Action 397251

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 397251
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/30/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 470428

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470428
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**06/09/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004234,-103.95595)

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470428
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/3/2025

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

QUESTIONS

Action 470430

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470430
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**06/09/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/12/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004234,-103.95595)

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 470430

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470430
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/3/2025

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

QUESTIONS

Action 470431

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470431
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**06/09/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/13/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004234,-103.95595)

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Santa Fe, NM 87505

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 470431
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/3/2025

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

QUESTIONS

Action 481476

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 481476
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**06/09/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,495
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/10/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004234,-103.95595)

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

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 481476
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/3/2025
jraley	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/3/2025

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QUESTIONS

Action 481477

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 481477
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Site Name	**EAST PECOS 22-3 PRODUCED WATER GATHERING LINE**
Date Release Discovered	**06/09/2016**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
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Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Whitehorn Rd and State Line Rd, head west on State Line Rd for approximately 0.48 miles to reach the GPS coordinate of the East Pecos 22-3 Produced Water Gathering Line (32.004234,-103.95595

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CONDITIONS

Action 481477

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 481477
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/3/2025
jraley	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/3/2025

Erick Herrera

From: Erick Herrera
Sent: Friday, July 11, 2025 4:34 PM
To: Velez, Nelson, EMNRD; Anna Byers
Cc: Jim.Raley@dvn.com; Devon-Team; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to provide you with an update since our last communication. Delineation is currently being conducted at the Site. Due to the presence of subsurface utility lines on Site, we had to carefully daylight and schedule utility representatives at the Site into the delineation process. The most recent delineation was conducted this week, with sampling notifications submitted for July 10th, and July 11th, respectively. Delineation soil samples will be submitted to an accredited laboratory for analysis of chloride, TPH, and BTEX following NMOCD approved methods. Once we receive the results, we will determine the appropriate next steps.

Please let me know if you have any questions.

Thank you,

Erick Herrera
Lead Project Geologist/GIS Manager
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera
Sent: Friday, May 23, 2025 4:09 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to update you and let you know that we are currently planning to further delineate the Site via hand auger to better define the edge of the release in the coming weeks to allow sufficient time for coordination with underground utility representatives. A 48-hr sampling notification will be submitted to the NMOCD Portal when we are ready to proceed, and we will send you further updates once the sampling has been completed.

Please let me know if you have any questions or require additional information.

Thank you, and hope you have a great weekend!

Erick Herrera
Lead Project Geologist/GIS Manager
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, April 25, 2025 4:47 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

There isn't much to add to our weekly report this week. Please be assured that we are actively working on the logistics. We anticipate providing a more comprehensive and formal update in the coming weeks.

In the meantime, please feel free to reach out if you have any questions or need additional information.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera
Sent: Thursday, April 17, 2025 5:01 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon,

We received the final Karst report for the Site, and I wanted to share the key findings with you. The report indicates that there are no surface karst features within 200 feet of the Site, and it confirms the absence of shallow anomalies, large voids, or related karst features within the survey area. Given these findings, we are currently assessing the best approach to move forward.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, April 11, 2025 4:20 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>

Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoonNelson,

Although we haven't received the final report, the findings from the BLM-approved third-party contractor indicate that the site is stable and there was no concern within 200-feet for cave/karst of the spill delineation boundary.

Once we receive the final report, we will be able to share it upon request. In meantime we can proceed with the next steps as planned.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, April 4, 2025 4:51 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to provide you with a quick update for the Site. We anticipate receiving the report for the Site sometime next week. Once we have the report, we will also have a clearer understanding of the karst topography at the Site and can determine the next steps moving forward.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera
Sent: Friday, March 28, 2025 4:27 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

The ER survey for the Site should be completed. We are now currently awaiting the full report, which will provide more insights. Once we have the report, we will share any relevant findings and updates regarding the Site.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Anna Byers <anna@etechenv.com>
Sent: Friday, March 21, 2025 2:44 PM
To: Erick Herrera <erick@etechenv.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

Not much to add to our weekly report this week. An ER survey for the Site is still scheduled by Southwest Geophysical Consulting, LLC for March 27, 2025. We will keep you updated, if there is any change to the survey date.

Thank you,

Anna Byers
Senior Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6415

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, March 14, 2025 3:05 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

Not much to add to our weekly report this week. An ER survey for the Site is still tentatively scheduled to be conducted by Southwest Geophysical Consulting, LLC on March 27, 2025. We will keep you updated, once we hear back.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, March 7, 2025 4:11 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to update you and let you know that Pedestrian/Aerial Karst surveys were negative for the Site, and we have aerial imagery that we can share upon request. An ER survey is tentatively scheduled to be conducted by Southwest Geophysical Consulting, LLC on March 27, 2025.

Thank you and hope you enjoy your weekend,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera
Sent: Friday, February 28, 2025 3:25 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

Not much to add to our weekly report this week. As of now, we have not received the report or findings for the aerial karst survey performed for the Site. We will keep you updated as soon as we hear back.

Thank you for your patience,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, February 21, 2025 4:38 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Hi Nelson,

I wanted to provide with the most recent Site update for this week:

An aerial karst survey was recently completed at the Site by Southwest Geophysical Consulting, LLC, and we are currently awaiting the results.

Additionally, we are waiting to hear back from the BLM regarding the recorded cultural sites from the recent completed cultural survey, to accommodate any additional proposed borings. BLM required a Data User Agreement, and we are in the process of waiting for their response.

We will keep you updated as soon as we receive any information.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, February 14, 2025 4:23 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to provide an update regarding the review and stipulations we received back from the BLM from the recent cultural survey which I have attached for your reference.

We are currently waiting for availability from a karst surveyor to conduct a pedestrian karst survey at the site to help with planning the delineation and help avoid karst features along with any cultural resources in the area. I will keep you updated on any developments regarding the surveyor's schedule and next steps.

Thank you for your patience and cooperation.

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, February 7, 2025 4:58 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

As of now, we have not received a formal update regarding the survey findings, or any stipulations associated with the cultural survey conducted for the Site by the BLM. SWCA is currently working on a redacted report on their findings that we can send over to you upon request.

Thanks,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, January 31, 2025 4:09 PM
To: Erick Herrera <erick@etechenv.com>
Cc: Jim.Raley@dvn.com; Devon-Team <Devon-Team@etechenv.com>; Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Erick,

Thank you for the update. It has been recorded in the Incident Event Details. Please continue to submit weekly progress as referenced below.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have an enjoyable weekend!

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, January 31, 2025 2:37 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com <jim.raley@dvn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I wanted to follow up regarding the cultural surveys that were conducted for this Site. As of now, we have not received any formal feedback from the BLM. Once we receive any updates, we will promptly relay the information to you.

Thank you for your patience and understanding as we navigate this process.

Thanks,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, January 27, 2025 8:51 AM
To: Erick Herrera <erick@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: Re: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good morning Erick,

Thank you for the correspondence and update. Please continue to provide a weekly update as it pertains to these incidents.

Have a safe and productive day!

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, January 24, 2025 2:40 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com <jim.raley@dvn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Hi Nelson,

I wanted to update you and let you know that the pedestrian cultural survey has been completed by SWCA and was positive for cultural resources. The report from SWCA regarding their findings is waiting response from the BLM.

Please let us know if you have any questions and/or feel free to reach out to Courney Blair at CBlair@swca.com for any questions regarding the cultural survey completed for the site.

Thanks,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, January 6, 2025 11:17 AM
To: Erick Herrera <erick@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: Re: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good morning Erick,

Thank you for the update. Since the pedestrian cultural survey is scheduled in a couple weeks, please provide the next progress email afterward.

Have a safe and productive day!

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, January 3, 2025 3:35 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com <jim.raley@dvn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I hope you are doing well.

As of now, there are no significant changes or new developments since last week's email, but wanted to remind you that the pedestrian cultural survey is still on track to be conducted by SWCA for January 14, 2025, and January 15, 2025. Once it's completed and reviewed by BLM and SHPO, we can move forward with the next steps.

Hope you have a great weekend!

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, December 27, 2024 4:30 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I hope you had a great holiday! I wanted to take a moment to provide you with an update for this week's report.

Currently, there isn't much new information to share, but I wanted to confirm that the pedestrian cultural survey is still on track to be conducted by SWCA for January 14 and 15, 2025. More information will be provided once the cultural survey is performed, and a formal report is submitted to the BLM/SHPO for review.

Hope you have a great weekend!

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Anna Byers <anna@etechenv.com>
Sent: Monday, December 23, 2024 2:23 PM
To: Erick Herrera <erick@etechenv.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

I missed last week's update email, but there was not much to add. The pedestrian cultural survey has been scheduled with SWCA for January 14 and 15, 2025. We will provide an informal update on SWCA's findings once the survey has been completed, but SWCA has to submit the formal report to BLM/SHPO for review. If SHPO agrees with SWCA's findings and/or recommendations, we will proceed with the Sundry permitting process.

Thank you for your understanding and patience in this process!

We wish you Happy Holidays!

Thank you,

Anna Byers
Senior Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6415

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, December 13, 2024 1:33 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

We don't have much to add for this week's update, but I wanted to let you know that a pedestrian cultural survey has been tentatively scheduled for the second or third week of January, 2025 by SWCA.

If you have any questions or need further information, please feel free to reach out.

Hope you have a great weekend!

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, December 6, 2024 4:14 PM
To: Erick Herrera <erick@etechenv.com>; Anna Byers <anna@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Erick and Anna,

Thank you for the update. It has been recorded in the Incident Event Details. Please continue to submit weekly progress as referenced below.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have an enjoyable weekend!

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Erick Herrera <erick@etechenv.com>
Sent: Friday, December 6, 2024 2:43 PM
To: Anna Byers <anna@etechenv.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com <Jim.Raley@dvn.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

An intensive pedestrian cultural survey was performed on December 5, 2024, by SWCA. There are two previously recorded sites that fall within the project survey area that need to be revisited and recorded. Additionally, a newly discovered small prehistoric site within the boundary of our proposed Sundry area was also discovered. All three sites will need to be revisited and recorded at a future date, but timing will depend on SWCA's availability that aligns with their current schedule. Once we have a clearer availability from the surveyor, we will provide you with updates.

Thank you,

Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Anna Byers <anna@etechenv.com>
Sent: Wednesday, November 27, 2024 5:15 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Nelson,

Not much to add to our weekly report this week. We've received the Biological Survey Report (negative) from NTG and SWCA is still scheduled to proceed with the cultural survey on December 5, 2025. After the completion of the cultural survey, we should have a more substantial update on this Site. If you would like us to forward the Biological Survey Report, please let me know and I will attach it to next week's update email.

Have a great holiday weekend!

Thank you,

Anna Byers
Senior Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6415

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, November 22, 2024 1:28 PM
To: Anna Byers <anna@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Good afternoon Anna,

Thank you for the update. Please continue to submit weekly progress as referenced below.

If there's a lag in any activities in the following weeks, please indicate approximately when the next progression email may be sent.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Thanks again and have a safe, enjoyable weekend!

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

From: Anna Byers <anna@etechenv.com>
Sent: Friday, November 22, 2024 11:13 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Jim.Raley@dvn.com <Jim.Raley@dvn.com>
Subject: [EXTERNAL] RE: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Nelson,

On behalf of WPX, Etech presents the following Site updates:

All of the laboratory analytical data has been received from the most recent delineation activities which has been compiled with existing data and summarized and attached as **Table 1** - laboratory analytical reports will be included within the next submitted Site Characterization and Remediation Plan report but may be provided earlier on request. Delineation soil sampling locations may be referenced in attached **Figure 2**. Based on laboratory analytical results, additional delineation is required. Prior to conducting further delineation, additional BLM land access via Sundry needs to be granted (**Requested Sundry Areas**). As such, BLM approved vendors for cultural (SWCA) and biological (NTG) survey companies, have been forwarded the information to review and schedule their respective services. NTG completed the biological survey on November 21, 2024, the report is pending, but the survey was negative. SWCA has received and acknowledged notice of the requested cultural survey area, and recently provided the earliest available date to complete the survey, December 5, 2024. The survey has been scheduled and upon any earlier available opening, WPX will be notified.

Please note that the completion of the reports detailing each survey's findings is required prior to submitting the Sundry to the BLM. Once the sundry has been reviewed and approved by the BLM, additional drilling permits will be submitted to NMOSE for approval (which require landowner approval within the permit application), and a driller will be retained to continue delineation soil sampling activities. Due to the unknown timeline for Sundry approval, a driller cannot be scheduled until land access has been granted. Drilling applications usually take three to four weeks for the NMOSE to review and subsequently approve, as long as there is no issue with the application.

At this time, WPX believes maximum coordination efforts have been made to continue delineation activities at the Site and will continue to provide weekly updates to the NMOCD to provide evidence as such.

Thank you,

Anna Byers
Senior Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6415

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, November 13, 2024 3:10 PM
To: Raley, Jim <jim.raley@dvn.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Devon Energy Extension Requests - nAB1614039576 and nAB1616628496

Some people who received this message don't often get email from nelson.velez@emnrd.nm.gov. Learn why this is important

Good afternoon Jim,

In the matter of nAB1614039576 and nAB1616628496, date of discovery was in May and June 2016. Since no activities were initiated until May 2024, your time extension request is denied for both incidents. Devon is required to submit its final remediation closure reports as soon as possible.

It's Devon's responsibility to keep OCD informed on the progress of the remediation. OCD request a brief weekly progress report be submitted via email to me or the enviro email address until the remediation has been completed. Adherence to Part 29 is still required. These progress reports will be concisely recorded within the Incident Event Details.

OCD will use its discretion to determine if additional enforcement action is warranted. Cooperation from Devon Energy will be considered when determining any enforcement actions, which may include civil penalties.

Please keep a copy of this communication for inclusion within the final remediation closure report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

Previously submitted email,

From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Tuesday, November 12, 2024 3:51 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] Devon Energy Extension Request -

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NMOCD District II,

Devon Energy Production Company (Devon) is requesting an extension to the current deadline for reports required in 19.15.29.12.B.(1) NMAC at the East Pecos 22-3 Produced Water Gathering Line (Site).

1. On April 15, 2016, it was discovered that a produced water gathering line failure resulted in approximately 55 barrels (bbls) of produced water to be released onto a Right-of-Way (ROW) and travel west, intersecting a lease road and another ROW south of the lease road. No fluids were able to be recovered. On May 16, 2016, the New Mexico Oil Conservation Division (NMOCD) and BLM were notified. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on May 18, 2016, and was assigned Incident Number nAB1614039576.
2. On June 9, 2016, it was discovered that the produced water gathering line associated with Incident Number nAB1614039576 failed again and resulted in approximately 15 barrels (bbls) of produced water to be released and follow the same flow path as Incident Number nAB1614039576, hereafter referred to as the Area of Concern (AOC). On the same day as the release discovery, immediate notice was given to the NMOCD and the BLM. WPX reported the release to the NMOCD on a Form C-141, which was received by the NMOCD on June 13, 2016, and was assigned Incident Number nAB1616628496.

On November 4 to November 8, 2024, vertical delineation activities within the subject release area(s) were completed via drill rig after thorough communication and coordination efforts with all affected utility operators, which included 2 subsurface pipelines, 1 surface pipeline, and overhead electrical power lines. Thirteen boreholes were advanced up to 55 feet below ground surface (bgs) within and around the suspected AOC driven by field screening soil for chloride and volatile organic compounds. Soil samples were collected at 0.5 feet bgs, 2 feet, and every 2 feet thereafter for laboratory analytical analysis of chloride, TPH, and BTEX by an accredited laboratory following NMOCD approved methods. The delineation soil samples are currently pending laboratory analytical results.

Devon requests an extension for the coordination and planning required to continue delineation of both incidents in order to prepare a complete Site Characterization and Remediation Plan report as required by the NMOCD. To provide enough time to coordinate land access and drill rig scheduling to complete delineation of both of the releases, receipt and review of laboratory analytical results, and prepare reports, Devon requests 90-day extensions for both releases at the Site associated with Incident Numbers **nAB1614039576** and **nAB1616628496** to **February 10, 2025.**

Jim Raley - Enviro Professional

Permian Basin - Devon Energy

575-689-7597

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or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 502817

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1616628496**
Incident Name	**NAB1616628496 EAST PECOS 22-3 PRODUCED WATER GATHERING LINE @ FAB1614038811**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Facility	**[fAB1614038811] East Pecos 22-3 Produced Water Gathering Line**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EAST PECOS 22-3 PRODUCED WATER GATHERING LINE
Date Release Discovered	06/09/2016
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Other (Specify) | Produced Water | Released: 15 BBL | Recovered: 0 BBL | Lost: 15 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

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

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 09/08/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	9450
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1340
GRO+DRO (EPA SW-846 Method 8015M)	503
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/25/2025
On what date will (or did) the final sampling or liner inspection occur	07/11/2025
On what date will (or was) the remediation complete(d)	12/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	37313
What is the estimated volume (in cubic yards) that will be reclaimed	3989
What is the estimated surface area (in square feet) that will be remediated	37313
What is the estimated volume (in cubic yards) that will be remediated	3989
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	*Not answered.*
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 09/08/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**481477**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/11/2025**
What was the (estimated) number of samples that were to be gathered	**30**
What was the sampling surface area in square feet	**3495**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	246289
	Action Number: 502817
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved with the following conditions; 1. Due to the incident being within the setback of a riverine wetland and significant watercourse, the closure standards must meet the most stringent (groundwater < 50 feet) per 19.15.29.12C (4a) (i) and (4e) NMAC. WPX Energy Permian [246289] (WPX) can contact a wetland certified scientist to forgo the riverine receptor if they determine that it isn't. 2. WPX is responsible for the remediation, reclamation, and revegetation of this release, its WPX's duty to include letters from the pipeline operators who are requesting a "no excavation" buffer zone around their pipelines to take responsibility for any contamination left in place due to their buffer zone request. If the pipeline operators are unwilling to take responsibility for the contamination located within their requested buffer zones, WPX will be required to remediate, reclaim, and revegetate the release pursuant to 19.15.29 NMAC.	9/30/2025
nvelez	Furthermore, pursuant to 19.15.29.7C NMAC, OCD may consider a person causing the release, or controlling the location of the release as the responsible party. If any pipeline operator refuses to allow the remediation, reclamation, and revegetation of this release, OCD reserves the right to hold the pipeline operator as the responsible party. 3. Variance will be dependent upon the roadway being fully delineated and the remaining impacted soils beneath it has been accounted for (e.g. estimated volume quantity left in place). 4. Alternative sampling plan request not to exceed 400 square feet (ft.2) for each five (5) point composite (5pc) from the excavation floor per 19.15.29.12D (1b) NMAC is approved. Sidewall confirmation sample(s) will abide at 200 ft.2 for each 5pc per 19.15.29.12D (1c) NMAC. All other provisions addressed in 19.15.29.12D NMAC remain in effect.	9/30/2025
nvelez	5. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, WPX must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 6. Please submit as a reclamation report if re-seeding is completed prior to its submittal. 7. WPX has 90-days (December 29, 2025) to submit to OCD its appropriate or final remediation closure report.	9/30/2025