



SITE CHARACTERIZATION & REMEDICATION PLAN ADDENDUM

Yates Federal #001

Eddy County, New Mexico

Incident Numbers nAB1428734057 and NRM2011138650

Prepared for:

WPX Energy Permian, LLC.

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 delineation and background soil sampling activities at the Yates Federal #001 (Site) associated with two inadvertent releases of crude oil and/or produced water. WPX proposes this SCRPA, which summarizes soil sampling activities, corrective actions, and details remediation objectives to further investigate and rectify environmental impacts at the Site.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit H, Section 34, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.000725°, -103.967483°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1 in Appendix A**).

nAB1428734057

On October 3, 2014, a wellhead leak resulted in approximately 16 barrels (bbls) of crude oil/produced water to be released onto the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 15 bbls of fluids. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on October 10, 2014, and was subsequently assigned Incident Number nAB1428734057. The release area is presented as *Release Area #1* on **Figure 2 in Appendix A**. WPX conducted initial remediation efforts to minimize impacts at the Site, which included the removal and disposal of surficial stained soil. Well files were reviewed to investigate the existence of a reserve pit north of the release area. Based on the review and observations at the Site, it is likely the reserve pit exists as documented on the well drilling permit. As a result, no further delineation was conducted in the area to minimize disturbance of the pit area. A Deferral Report (DR) was then submitted by WPX and denied on March 29, 2023, for a depth to water determination based off a well greater than 0.5 miles from the Site and reported groundwater measurements greater than 25 years old.

Delineation soil sampling activities were conducted by a third-party environmental contractor, and Etech prepared a Remediation Work Plan (RWP) to present corrective actions based on delineation soil sample laboratory analytical results. The NMOCD approved the RWP on November 27, 2023, with the following condition(s):

- Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Submit report via the OCD permitting portal by February 19, 2024.

NRM2011138650

On April 14, 2020, a storage tank overflow resulted in approximately 10 bbls of produced water to be released into the tank battery earthen berm containment. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of fluids. WPX reported the release to the NMOCD on a Form C-141, which was received by the NMOCD on April 17, 2020, and was subsequently assigned Incident Number NRM2011128650. WPX mapped the release extent utilizing a handheld Trimble® Global Positioning System (GPS) unit following the release discovery and is presented as *Release Area #2* on **Figure 2 in Appendix A**. Between April 30 and November 5, 2020, WPX initiated excavation activities, contracted the completion of a pedestrian karst survey at the Site and surrounding area and continued excavation efforts. A DR was then submitted by WPX and was denied on March 18, 2021, due to the karst potential designation for the Site, which had been based off the karst survey results.



Delineation soil sampling activities were conducted by a third-party environmental contractor, and Etech prepared a Remediation Work Plan (RWP) to present corrective actions based on delineation soil sample laboratory analytical results. The NMOCD denied the RWP on November 15, 2023, for the following reasons:

- The Remediation Plan is Denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. You would need to send your karst study to the BLM and try to get high karst potential downgraded to medium in this particular area. If they do make changes to the map, let us know and we will honor their decision. AOC 1 and 2 have not been delineated. All sample points on the sitemap should be labelled. Confirmation floor samples will need to be taken every 200 ft². Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. The work will need to occur in 90 days after the report has been reviewed.

Due to the extent of planning and coordination to continue delineation soil sampling activities, an extension was requested and granted for May 9, 2024. A sundry notice was submitted via Form 3160-5 (Sundry Notices and Reports on Wells) to proceed with delineation activities and granted by BLM on January 16, 2024.

Additional delineation activities were conducted between February 26, 2024, to May 3, 2024, via drill rig. Etech prepared a Site Characterization Remediation Plan (SCRP) detailing a remediation summary of the February drilling efforts and proposing the investigation of potential elevated background chloride concentrations, which was submitted on May 8, 2024. The NMOCD denied the SCR on May 31, 2024, for the following reasons:

- Remediation plan denied. Does not comply with 19.15.29.12 C. NMAC. Background sample locations and proposal to use the greatest chloride concentration and the lowest chloride concentration as an acceptable range for naturally occurring background concentrations denied. The OCD will not approve using a range of chloride concentrations for background concentrations. Proposed background samples located east of the site are located in an area where the elevation is trending down and where potential disturbance has been located in the past based on vegetation loss and soil discoloration seen on Google Earth aeriels. The northern most proposed background sample is located in close proximity of the suspected historic pit and other potential disturbed areas based on scaring seen on Google Earth aeriels. An additional background sampling plan can be submitted but must be approved prior to implementation. Please submit any sampling plans to OCD.Enviro@emnrd.nm.gov. A geophysical survey and a karst monitor may still be warranted for worker safety during remediation activities but may not change closure criteria. A karst survey was performed for the Brushy Gathering Facility (nAB1501655607, nAB1504054780 nAB1522341642, nAB1621453181, nAB1633639499, nAPP2230032326) located approximately 1.35 miles northeast of YATES FEDERAL #001. The karst survey identified surficial and subsurface karst features. A change to closure criteria must be approved by the surface owner (BLM) and the approval must be included in the next submittal to the OCD. The releases referenced in this report were discovered approximately 10 years and 4 years ago. An approvable remediation plan will need to be submitted through the OCD Permitting website by 7/31/2024. Failure to submit a complete and accurate report by 7/31/2024 may result in compliance and enforcement penalties pursuant to 19.15.5 NMAC.

On June 7, 2024, a revised Background Sampling Plan was submitted to NMOCD for review. The NMOCD denied the Background Sampling Plan "as is" and outlined appropriate measures to proceed with background sampling on June 13, 2024. The Background Sampling Plan was updated accordingly and submitted to both NMOCD and the BLM, which was approved by the BLM via email on June 25, 2024. An updated sundry was submitted to continue delineation activities and conduct background soil sampling activities, which was approved on August 14, 2024. The additional area(s) added for access to the approved background soil sampling locations were not previously disturbed and as such, required both cultural and biological surveys. The results of these surveys are included in **Appendix B** and **Appendix C**, respectively. Due to the extent of planning and coordination to continue



delineation and background soil sampling activities, an extension was requested and granted for October 29, 2024.

Remediation summaries from previous work may be referenced in the archived reports and continued delineation and background soil sampling activities are detailed in the remediation summaries included in this SCRPA. It should also be noted that since initial response efforts, plugging and abandonment activities at the Site have been completed, but the tank battery and associated processing equipment remains active on Site.

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.

The closest boring or well with recent water data is New Mexico Office of the State Engineer (NMOSE) permitted boring C-04823-POD 4, located on the Site well pad, advanced by Atkins Engineering Associates, Inc on June 18, 2024, on behalf of WPX. During the drilling process, groundwater was encountered between approximately 55 and 60 feet below ground surface (bgs). The boring was left open for a minimum 72-hour period to allow groundwater to equilibrate, and on June 24, 2024, a static depth to water was measured at 51.9 feet bgs. The boring was plugged and abandoned following the appropriate rules and regulations. The next closest boring or well with water data is State of Texas Tracking #356414 well, located approximately 0.4 miles west to southwest of the Site (**Figure 1A** in **Appendix A**). The well has a reported depth to groundwater of 58 feet bgs from 2014. Based on this information and findings from the regional water well review, groundwater depth at the Site is estimated to be between 51 and 100 feet bgs. All well records referenced for depth to groundwater determination are included in **Appendix D**.

Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a high potential karst area; however, a pedestrian karst survey was conducted and confirmed the absence of surface karst features and the limited likelihood of shallow subsurface karst features. No surface karst features were identified after a thorough desktop review by a karst expert or discovered within the 30.4 acres covered during the pedestrian karst survey. The karst survey is included in **Appendix E**.

Based on the initial desktop review, other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review, specifically the high potential karst designation 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	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

PREVIOUS DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS

As documented in the previously submitted RWP, between May 12, 2022, and November 9, 2022, a third party environmental consultant advanced two delineation potholes (PH01 and PH02) via mechanical equipment within the tank battery earthen berm containment. Delineation activities were driven by field screening soil samples for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each pothole: at least one sample representing the highest observed field screening concentrations and one sample representing the pothole terminus.

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

Laboratory analytical results for both PH01 and PH02 indicated BTEX and TPH concentrations were below the laboratory detection limit, and chloride concentrations for all soil samples collected from PH02 were below the Site Closure Criteria. Chloride concentrations for PH01 were compliant with Site Closure Criteria once the pothole reached 15 feet bgs. Supplemental documentation associated with the delineation summary can be referenced in the original RWP.

As documented in the previously submitted SCRP, between February 26, 2024, to May 3, 2024, Etech oversaw continued delineation activities to assess the presence or absence of residual impacts associated with the release areas. Five boreholes (BH01 through BH05) advanced via rotary drill rig and six potholes (PH01 through PH06) advanced via hand shovel were driven by field screening soil samples for VOCs and chloride, as previously described. Boreholes were collected for laboratory analysis of COCs, averaging at 5-foot intervals starting at 0.5-foot bgs and up to 35 feet bgs. Pothole soil samples were collected at 0.5-foot and 1-foot bgs. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Appendix F**. The locations of the delineation soil samples were mapped with a handheld GPS and are shown in **Figure 3** in **Appendix A**. Photographic documentation during continued delineation activities is included in **Appendix G**.

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 for all delineation soil samples indicated BTEX concentrations were below the laboratory detection limit; TPH exceedances were detected at delineation soil sampling locations BH02 (0.5 feet bgs, 4 feet bgs, and 10 feet bgs) and BH04 (0.5-foot bgs), which are characterized by concentrations ranging from 229 mg/kg to 1,820 mg/kg; chloride concentrations exceedances were detected at various depths in all delineation soil sampling locations advanced within the release



areas, which are characterized by concentrations ranging from 671 mg/kg to 10,400 mg/kg. The concentrations of all analyzed COCs for all terminus delineation soil samples were below the Site Closure Criteria, except sampling location BH04. Laboratory analytical results indicated all concentrations of the COCs for delineation soil samples surrounding the release areas were below the Site Closure Criteria.

Laboratory analytical results are summarized in **Table 1** as **Attachment H**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment I**.

CONTINUED DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS

From June 11 to June 19, 2024, Etech oversaw continued delineation activities to further define the presence of residual impacts associated with the release areas. Delineation borehole BH04 was further advanced to 59 feet bgs and eleven additional boreholes (BH06 through BH16) were advanced up to 55 feet bgs via sonic drill rig, which were driven by field screening soil samples for VOCs and chloride, as previously described. Boreholes were collected for laboratory analysis of COCs, averaging at 5-foot intervals starting at 0.5-foot bgs and up to 59 feet bgs. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Appendix F**. The locations of the delineation soil samples were mapped with a handheld GPS and are shown in **Figure 3** in **Appendix A**. Photographic documentation during continued delineation activities is included in **Appendix G**.

DELINEATION LABORATORY ANALYTICAL RESULTS SUMMARY

Laboratory analytical results indicated BTEX were below the Site Closure Criteria for all delineation soil samples. TPH concentration exceedances were detected at delineation soil sampling locations BH02, BH04, and PH04, which are characterized by concentrations ranging from 101 mg/kg to 1,910 mg/kg. **Table A** depicts the delineation soil sample name and respective depth where TPH concentrations exceeding Site Closure Criteria were identified.

Table A: Soil Samples Exceeding TPH Site Closure Criteria

Soil Sample Name	Depth (feet bgs)
BH02*	0.5 - 10
BH04	0.5
PH04	0.5 - 1

* Indication that the terminus soil sample from the specified delineation boring location was in compliance with Site Closure Criteria.

Laboratory analytical results indicated that chloride concentrations exceeded the Site Closure Criteria at one or more depths at BH01 through BH10 and BH14, which are characterized by concentrations ranging from 601 mg/kg to 10,400 mg/kg. The terminus soil sample from sampling locations BH01 through BH03, BH05, BH06, BH08, and BH10 indicated concentrations of COCs were below the Site Closure Criteria. Laboratory analytical results indicated chloride concentrations for the remainder of the borings were below Site Closure Criteria. **Table B** depicts the delineation soil sample name and respective depth where chloride concentrations exceeding Site Closure Criteria were identified.

**Table B: Soil Samples Exceeding Chloride Site Closure Criteria**

Soil Sample Name	Depth (feet bgs)
BH01*	0.5 - 25
BH02*	0.5, 15 - 25
BH03*	0.5 - 30
BH04	0.5 - 59
BH05*	0.5 - 15, 25
BH06*	30 - 45
BH07	30 - 35
BH08*	20 - 30
BH09	4 - 15, 35, 45 - 50
BH10*	4 - 20
BH14	40 - 55

* Indication that the terminus soil sample from the specified delineation boring location was in compliance with Site Closure Criteria.

Laboratory analytical results are summarized in **Table 1** as **Attachment H**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment I**.

BACKGROUND SOIL SAMPLING ACTIVITIES

From October 22 to October 25, 2024, Etech conducted background soil sampling activities to investigate the existence of any elevated, naturally occurring chloride concentrations. Due to time restraints and limited availability of the drillers, three of the five planned borings were completed. The background boreholes (BG01 through BG03) were advanced via sonic drill rig, which were advanced up to 60 feet bgs. Soil boring samples were collected for laboratory analysis at 0.5-foot bgs and 1-foot bgs every foot thereafter up to 60 feet bgs. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Appendix F**. The locations of the delineation soil samples were mapped with a handheld GPS and are shown in **Figure 4** in **Appendix A**. Photographic documentation during delineation activities is included in **Appendix G**.

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

BACKGROUND LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that elevated background chloride concentrations exist, in respect to the Site Closure Criteria, at background soil sampling locations BG01 and BG03 (characterized by concentrations ranging from 601 mg/kg to 1,290 mg/kg). **Table C** depicts the soil sample name and respective depth where chloride concentrations exceeding 600 mg/kg were identified.

**Table C: Background Soil Samples Exceeding 600 mg/kg**

Soil Sample Name	Depth (feet bgs)
BG01	6 – 19, 21, 24
BG03	6, 9

Laboratory analytical results are summarized in **Table 1** as **Attachment H**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment I**.

PROPOSED REMEDIATION PLAN

Based on the delineation soil sample laboratory analytical results, the following conclusions regarding the release are presented:

- As referenced in the RWP and SCRP, the extent for *Release Area #1* was estimated, and as such, the outer estimated extent of *Release Area #1* has been combined with the GPS mapped *Release Area #2* to make one collective release area, henceforth referenced in this SCRPA as the Area of Concern (AOC) (**Figure 3 in Appendix A**).
- The Site is in a high karst potential area designated by the BLM; however, no voids were encountered during delineation drilling activities for boreholes advanced within or adjacent to the AOC, up to 60 feet bgs as determined by the terminus drilling depth(s). Surface and subsurface instability appears unlikely to the area which is the concern that results in the application of the strictest Closure Criteria standards.
- Nearby water well data indicates groundwater is between 51 feet and 100 feet bgs; ie. greater than 60 feet bgs based on background soil sampling.
- Based on laboratory analytical results, BTEX and benzene concentrations were below the Site Closure Criteria for all analyzed soil samples, however, TPH concentrations exceedances above the Site Closure Criteria were present, specifically within proximity to delineation soil sampling locations BH02, BH04, and PH04 and background soil sampling locations BG01, BG02, and BG03. TPH concentrations were below the laboratory detection threshold for all other delineation soil samples.
- Based on laboratory analytical results, chloride concentrations exceeding Site Closure Criteria exist at varying depths at all delineation soil sampling locations within and around the AOC. The average of the chloride concentration exceedances at the Site is 1,618 mg/kg, which was calculated using the sum of all chloride concentrations greater than 600 mg/kg and dividing by the total amount of soil samples exhibiting this criterion.
- Background soil sample laboratory analytical results indicated that variable chloride concentrations exist within proximity of the Site, which may suggest influence from naturally occurring elevated concentration(s). Laboratory analytical results indicated the presence of elevated chloride concentrations at BG01 and BG03, in respect to Site Closure Criteria.
- Concentrations of all the COCs for the terminus delineation soil samples from twelve of the sixteen delineation boring locations were below the Site Closure Criteria, providing partial vertical delineation.



- Additional horizontal and vertical delineation is required to understand the full extent of residual impacts. A proposed delineation report will be sent to the BLM for review. If approved, WPX will provide the approved report to the NMOCD via email and data provided in subsequent report.

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

- WPX proposes to excavate the AOC up to 4 feet bgs where possible in an effort to remove as much residually impacted soil above the Site Closure Criteria based on conditions that have been re-evaluated via Site investigation (likelihood of karst that results in an Unstable Area). "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." The Site is stable based on recent drilling activities and no karst subsurface features such as voids were encountered. As requested by the NMOCD when pursuing a deviation from the most stringent closure criteria in a critical/high/medium karst potential occurrence zones, "If a site is in one of these mapped occurrence zones it will be the responsibility of the operator/responsible party to provide verification that the site is not "unstable" [...] and will required additional surveys. [...] As part of the NMOCD approval process the operator will need to provide to the OCD a demonstration a review of the area and also received approval from any applicable Federal or State land management agency, such as BLM or SLO. If the applicable surface management agency does not approve of the operator's request, it will be denied by the OCD and will need to meet the most stringent closure criteria." Therefore, Devon retained BLM approved karst expert, Dave Decker with Southwest Geophysical Consulting, LLC, to perform a Small Unmanned Aerial Systems (sUAS) surface karst survey and Electrical Resistivity Imaging (ERI) survey. The reports will be forwarded to the BLM for review.
 - i. Due to the size of the anticipated excavation area, WPX requests a variance for excavation confirmation soil samples to represent a maximum of 500 square feet per soil sample. The 5-point excavation confirmation soil samples will be comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples will be placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples will be transported under strict chain-of-custody procedures to an accredited laboratory and analyzed for referenced COCs.
 - ii. Soil will be left in place directly below and adjacent to active infrastructure, which includes a minimum 2-foot buffer around active infrastructure to be factored into the area(s) proposed to be excavated.
- The proposed excavation will likely require third-party operator oversight and additional safety measures near their respective subsurface pipelines before or during excavation activities. WPX and/or the third-party operator may implement additional safety precautions above encroachment guidelines at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities. Such restrictions include but are not limited to:
 - i. Shifting the proposed excavation extent(s) to adhere to established buffer zone(s) around one or more utilities.
 - ii. Inducing a change in proposed excavation(s) depth(s) around one or more utilities.



- Upon receipt and review of excavation confirmation soil sample laboratory analytical results, WPX will determine the appropriate measure of corrective actions that will include:
 - i. Documenting the removal of impacted soil and restoration at the Site with a subsequent Closure and Reclamation Report detailing assessment, 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 -
 - ii. Preparing a SCRPA 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 respectfully requests approval of this SCRPA from NMOCD. WPX will report progress updates as it relates to the karst study and BLM correspondence associated with the deviation decision from the most stringent Closure Criteria or potential modification of corrective action.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com. **Appendix J** provides correspondence and notification receipts associated with the subject release. Previous remediation activities for the subject release can be referenced in previous reports in **Appendix K**.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Anna Byers
Senior Geologist

Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, WPX
New Mexico Oil Conservation Division
State Land Office



Appendices:

- Appendix A:** Figure 1: Site Map
Figure 1A: Site Characterization – Groundwater
Figure 1B: Site Characterization – Surface Receptors
Figure 1C: Site Characterization – Subsurface Receptors
Figure 2: Estimated Release Areas
Figure 3: Delineation Soil Sample Locations
Figure 4: Background Soil Sampling Locations
- Appendix B:** Cultural Survey Report
- Appendix C:** Biological Survey Report
- Appendix D:** Referenced Well Records
- Appendix E:** Pedestrian Karst Survey Report
- Appendix F:** Soil Sampling Logs
- Appendix G:** Photographic Log
- Appendix H:** Tables
- Appendix I:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix J:** Archived Correspondence and Notification Receipts
- Appendix K:** Archived Reports

APPENDIX A

Figures

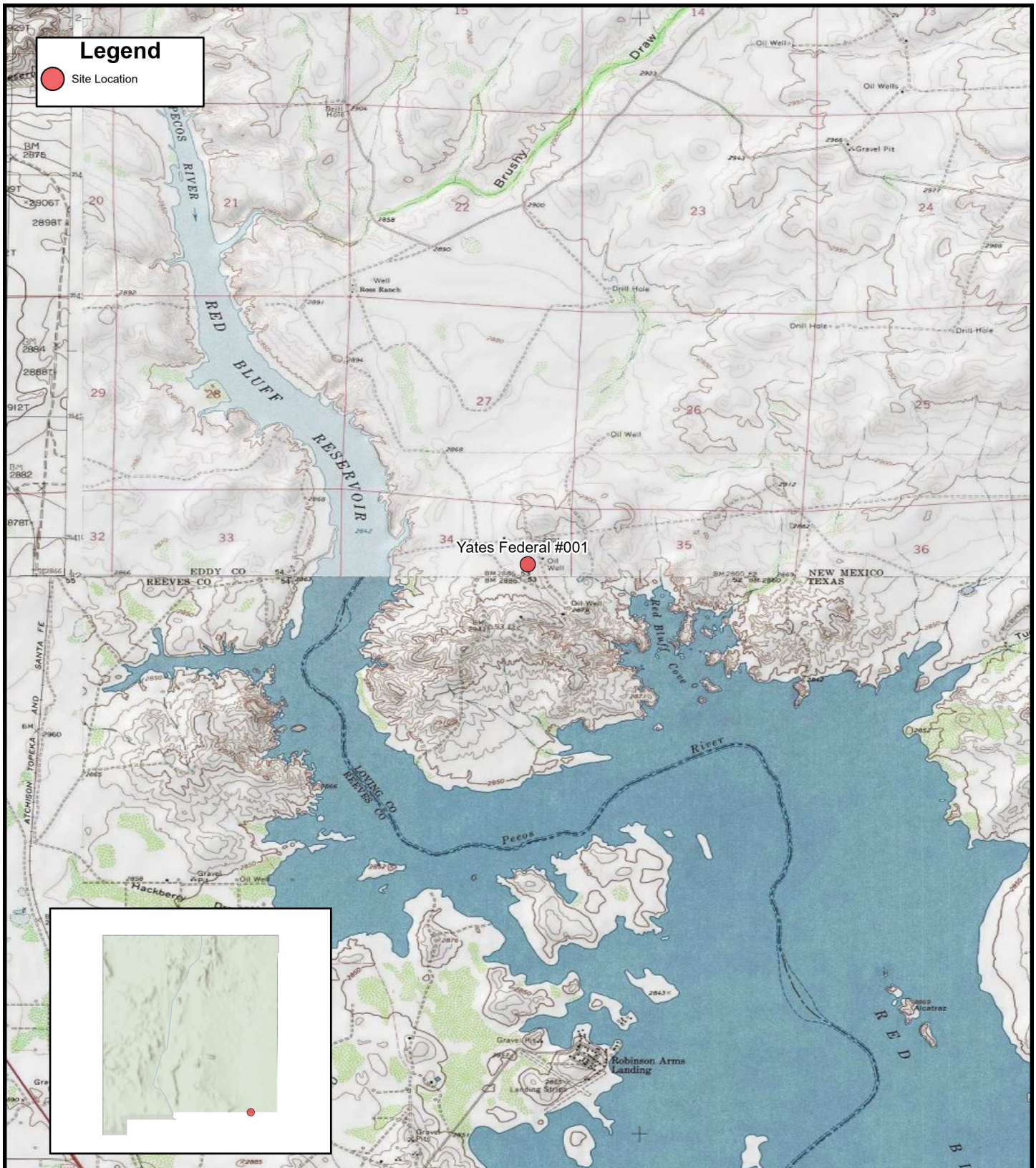


FIGURE 1

Site Location Map

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



0 2,000 4,000 Feet

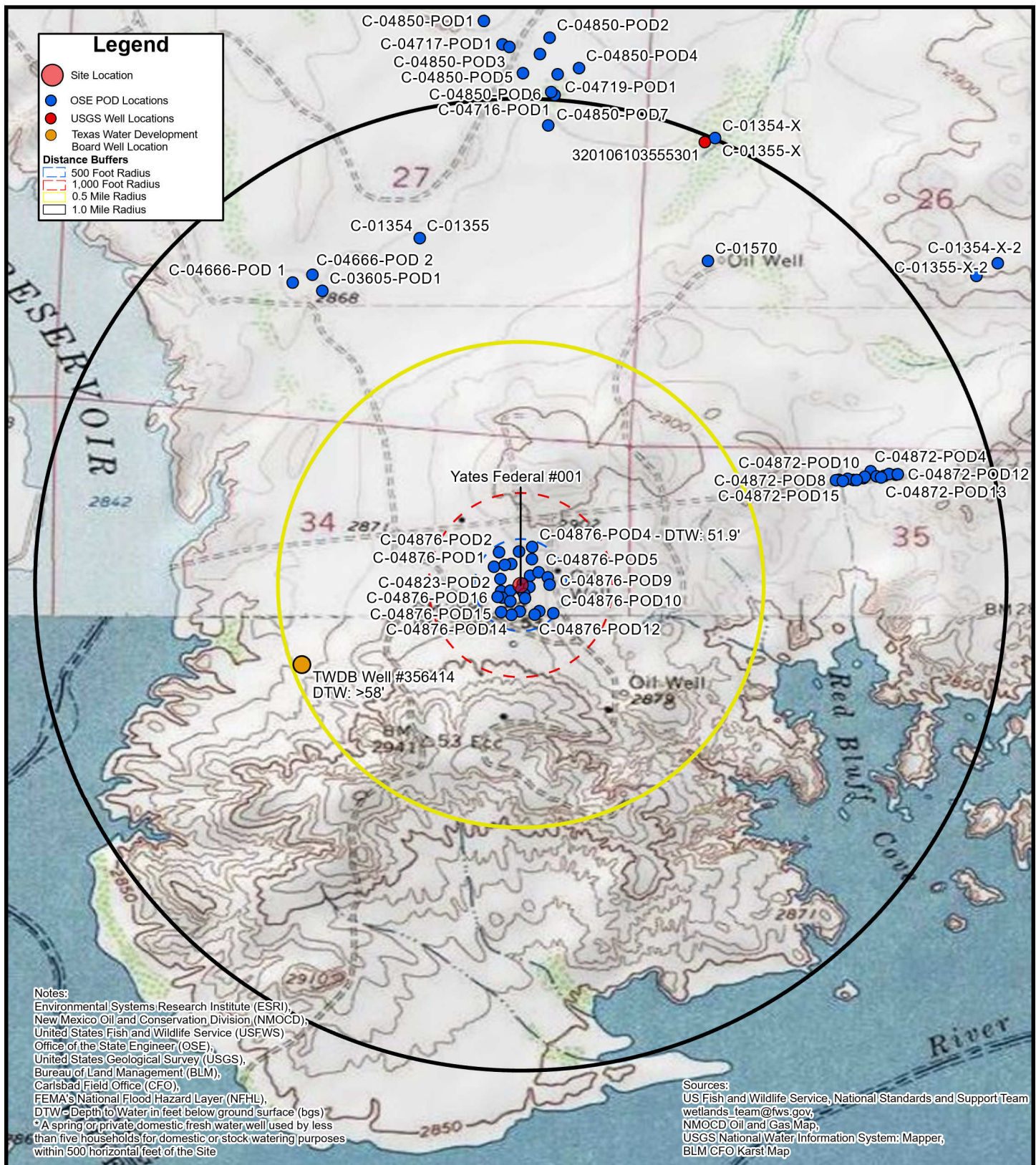
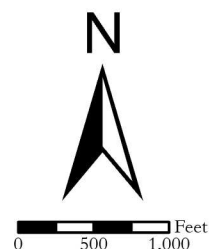


FIGURE 1A
Site Characterization Map
Groundwater

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



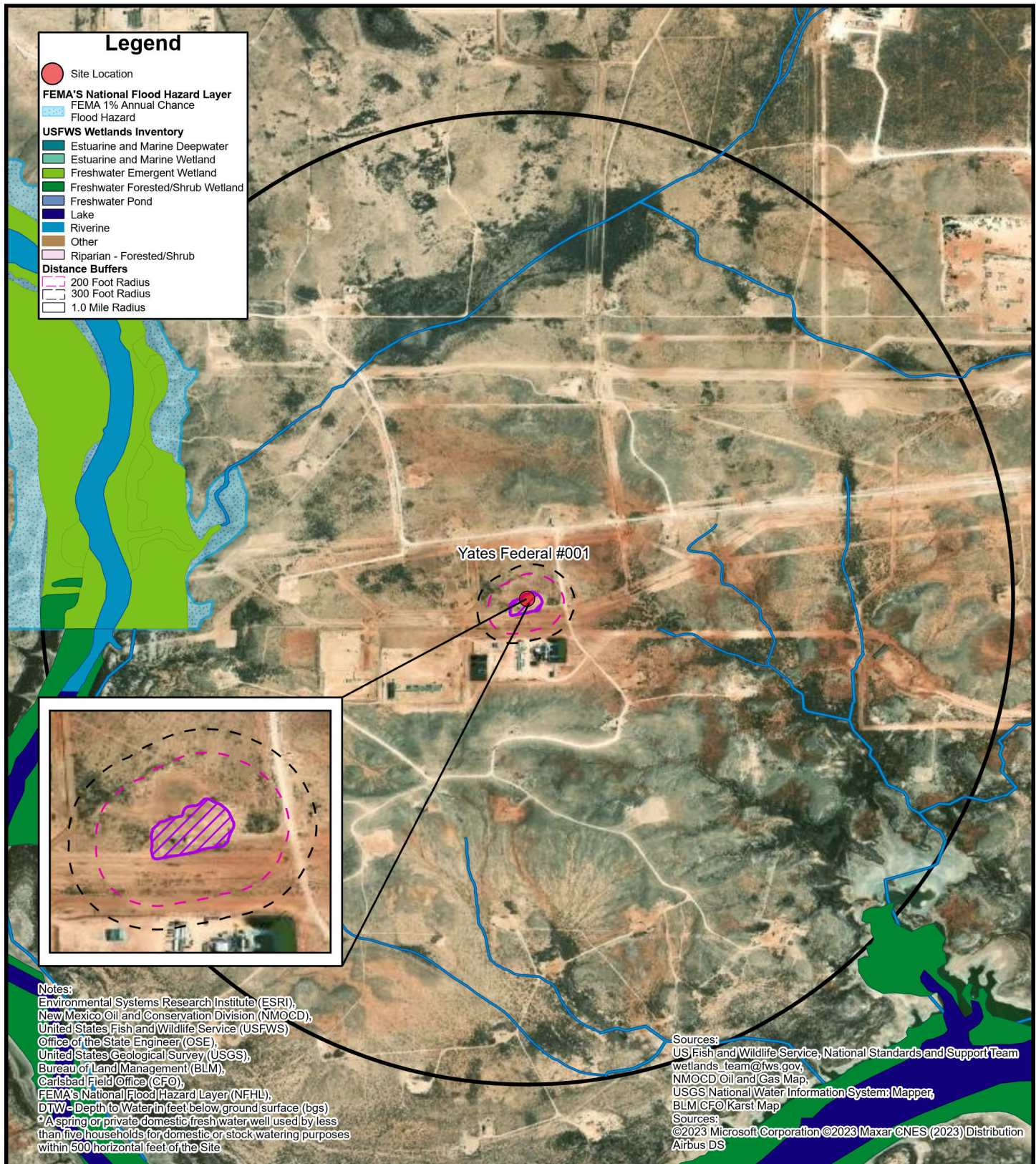
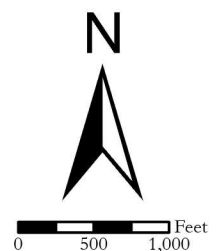
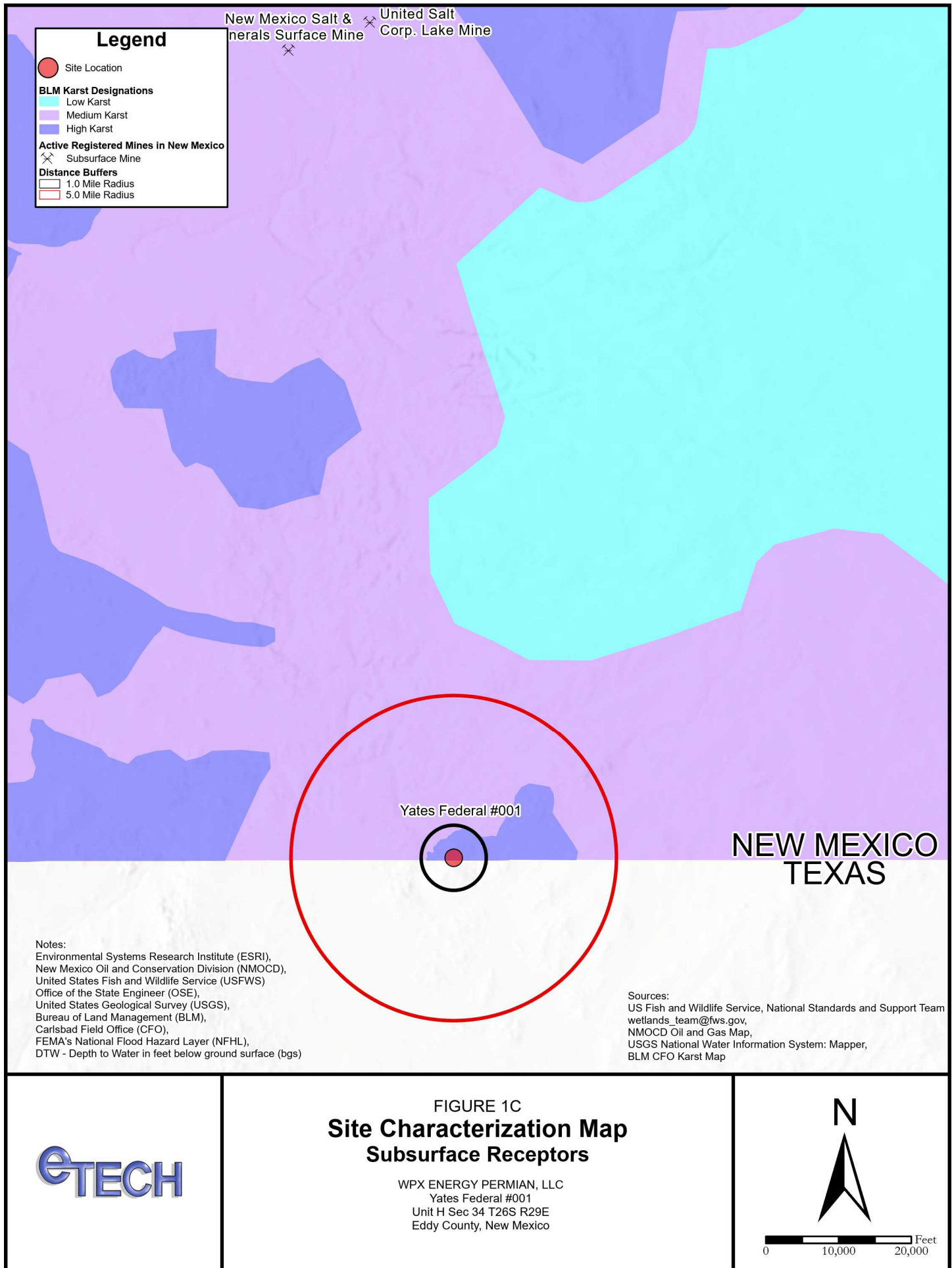


FIGURE 1B Site Characterization Map Surficial Receptors

WPX ENERGY PERMIAN, LLC
 Yates Federal #001
 Unit H Sec 34 T26S R29E
 Eddy County, New Mexico





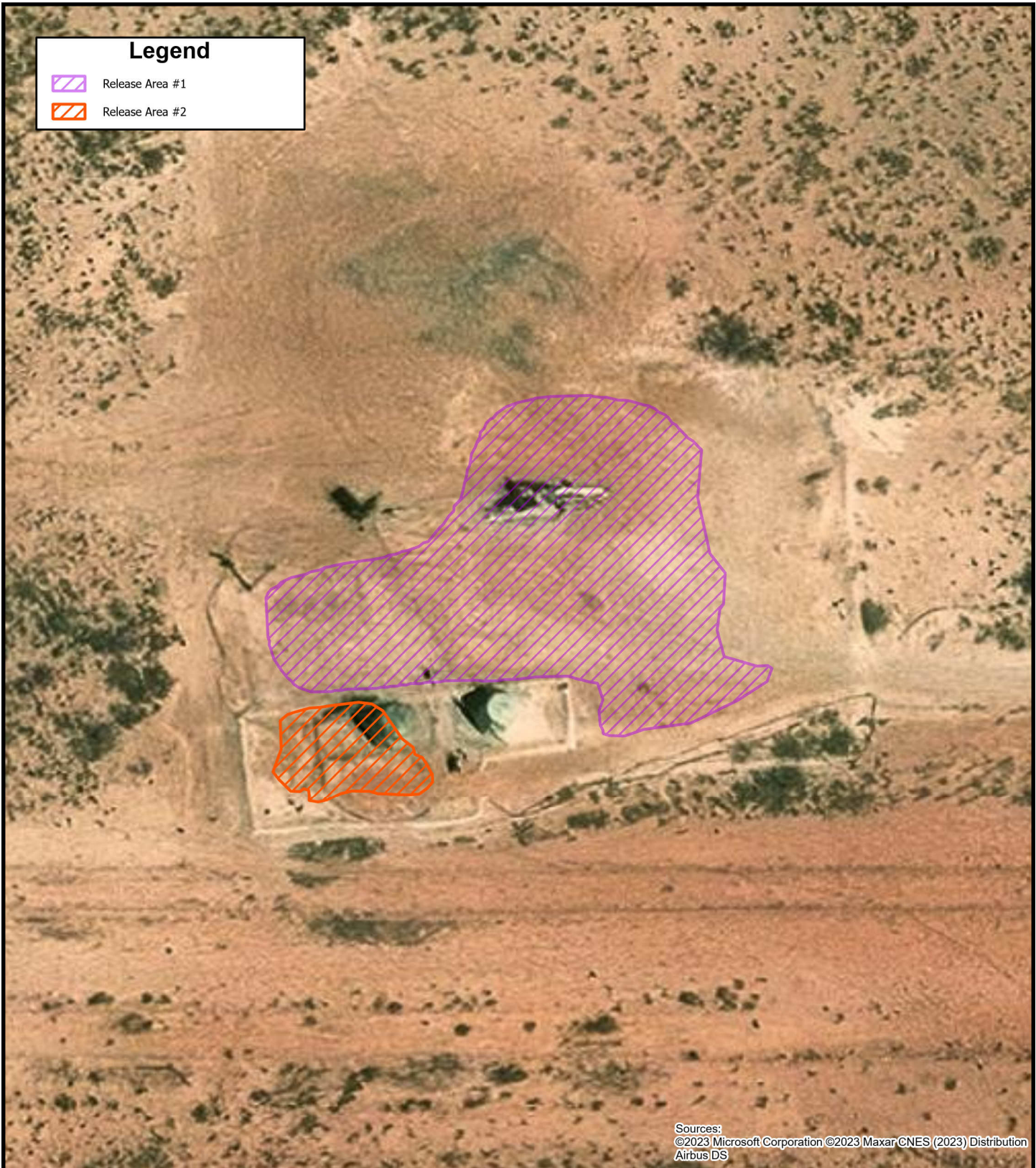
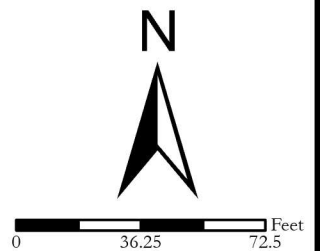


FIGURE 2

Estimated Release Areas

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



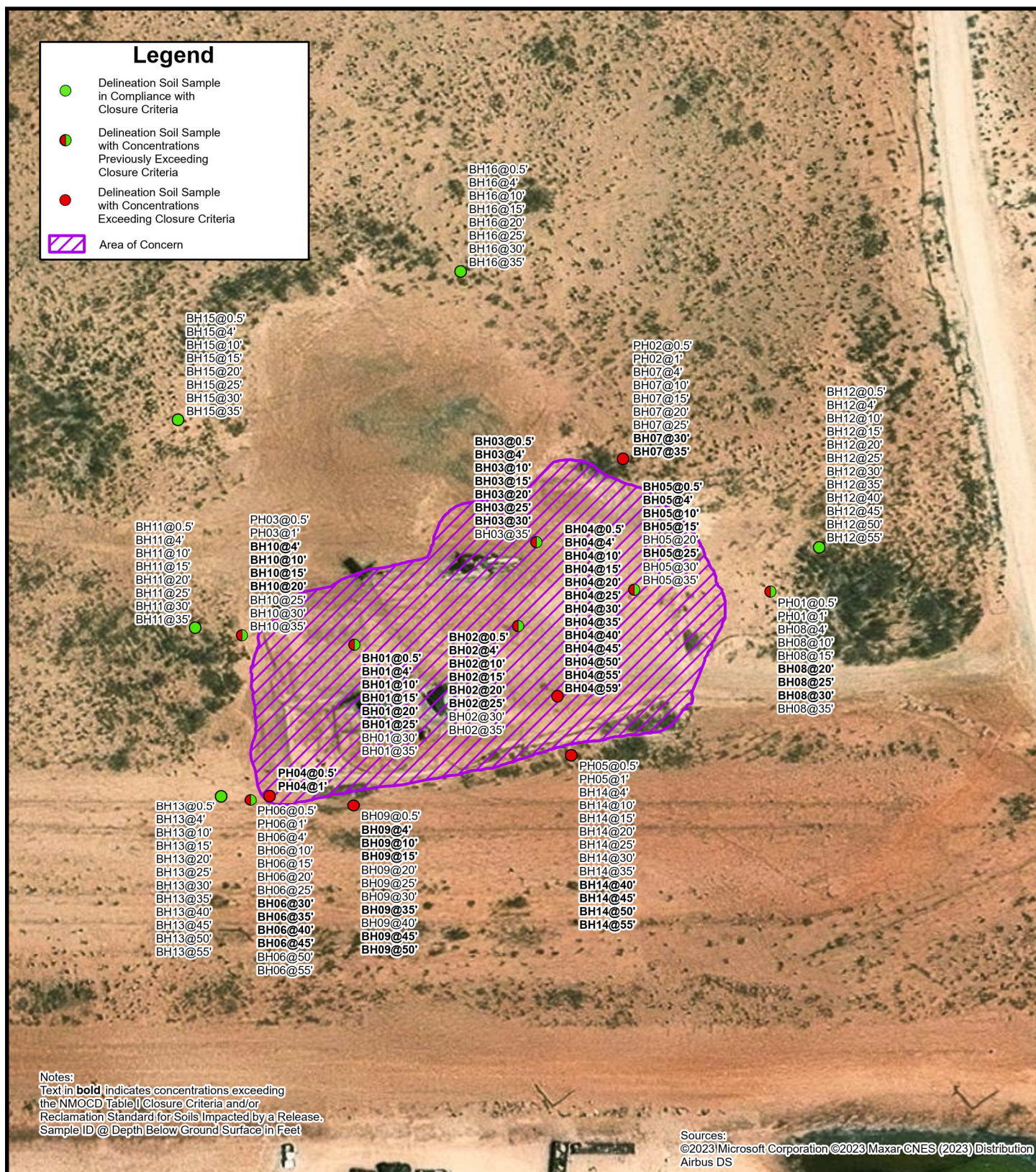


FIGURE 3

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



0 55 110 Feet

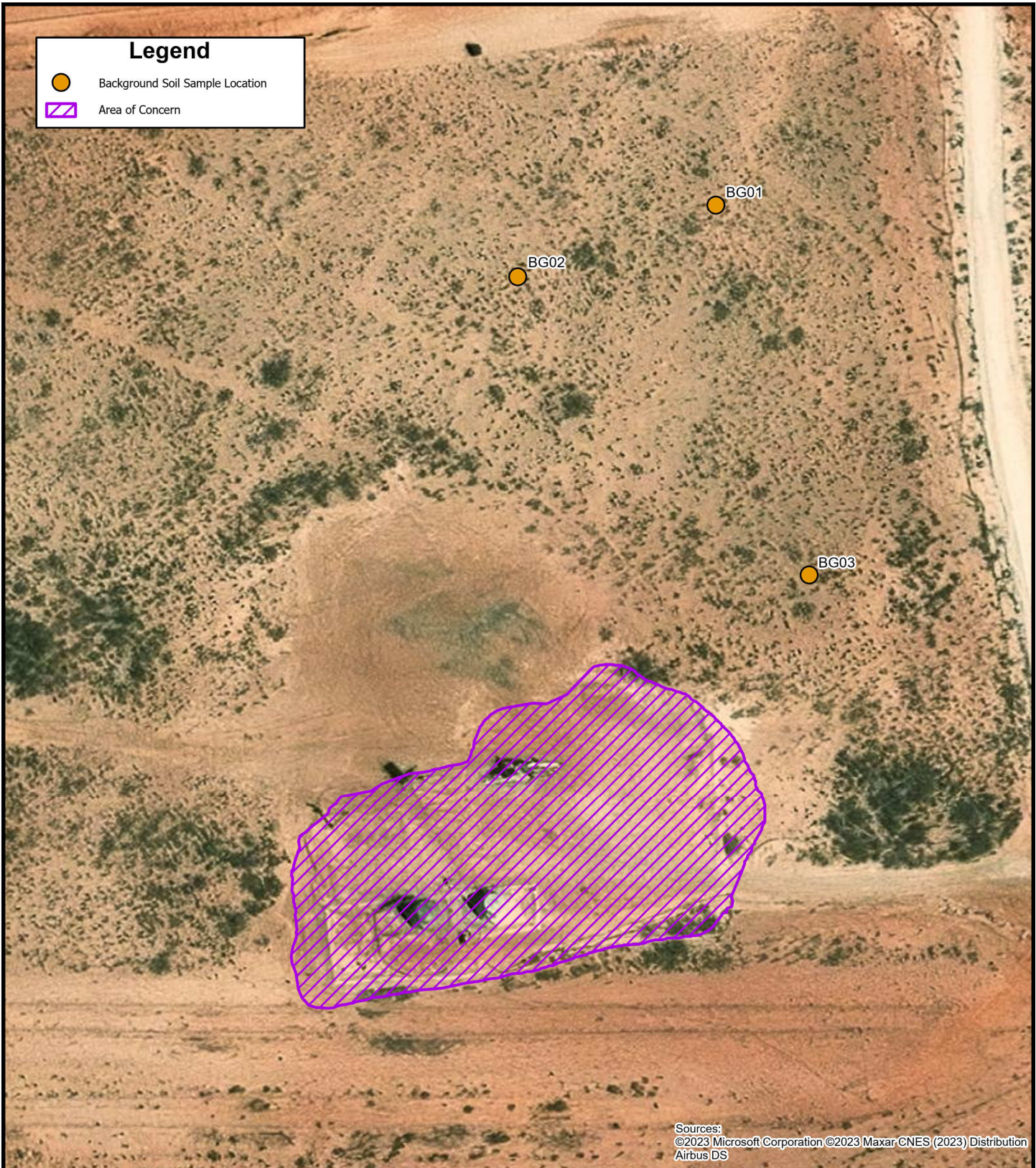
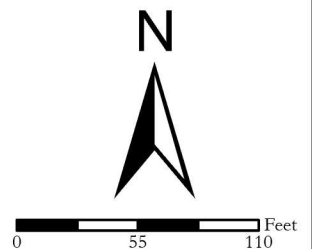


FIGURE 4

Background Soil Sampling Locations

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



APPENDIX B

Cultural Survey Report

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

JANUARY 2025

PREPARED FOR

Bureau of Land Management

Carlsbad Field Office

PREPARED FOR

WPX Energy, Inc.

PREPARED BY

SWCA Environmental Consultants

CULTURAL RESOURCES SITE-SPECIFIC VISIT OF LA 194744 AND THE MONITORING OF DRILLING ACTIVITIES FOR THE YATES FEDERAL #001 ADDITIONAL BORING PROJECT IN EDDY COUNTY, NEW MEXICO

Prepared for

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5315 Buena Vista Drive
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Prepared for

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Carlsbad Field Office**
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Prepared by

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Alissa K. Healy, Principal Investigator

SWCA Project No. 92635
SWCA Cultural Resources Report No. 25-94

February 2025

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341

HPD Log No(s).

Registration

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Performing Agency: SWCA Environmental Consultants

Activity ID: 92635

Performing Agency Report No: 25-94

Other Agencies:

Report Recipient (Your Client): WPX Energy, Inc.

Activity Types:

☐ Research Design

☐ Archaeological Survey/Inventory

☐ Architectural Survey/Inventory

☐ Test Excavation

☒ Monitoring

☐ Collections/Non-Field Study

☐ Compliance Decision

☐ Literature Review Overview

☐ Excavation

☐ Ethnographic Study

☒ Resource/Property Visit

☐ Historic Structures Report

☐ Other:

Total Survey Acreage: 0.00

Total Tribal Acreage: 0.00

Total Resources Visited: 1

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
LA	194774		☒	Site	☐	Revisit

Report Details

Type of Report Positive

Lead Agency

Lead Agency: US Bureau of Land Management Carlsbad Field Office

Lead Agency Report No.

Report Number:

Title of Report

Title of Report: Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341**HPD Log No(s).****Report Details (continued)**

Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

Authors: Nadia Waski, Courtney Blair, Josh Huck, and Steve Velazquez

Publication Type: Report, Monograph, or Book

Description of Undertaking (what does the project entail?)

Description: WPX Energy, Inc., a subsidiary of Devon Energy Corporation, contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural resources pedestrian survey in support of the Yates Federal #001 Additional Boring project (the project) in Eddy County, New Mexico. The proposed project is located on land managed by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO), approximately 25.18 km (15.65 miles) southeast of Malaga, New Mexico. The BLM CFO will serve as the lead agency.

The project is located to the north, south, and east of the existing Yates Federal #001 Well Pad along State Line Road. Back in January 2024, SWCA surveyed a 7.95-acre area surrounding an inadvertent release located within the existing well pad site under the New Mexico Cultural Resources Information System Activity Number (NMCRIS No. 154841). The survey included the proposed remediation area as well as a 100-foot-wide cultural buffer. In August of 2024, eTech Environmental & Safety Solutions, Inc. (eTech) reached out to SWCA, on behalf of WPX, to conduct additional cultural investigation for BLM required boring and soil sampling locations surrounding the original remediation area to check for potential chemical levels that may have leached outside the original remediation area. The updated drill location project area, surrounding the well pad, totals 2.45-hectare (6.07 acre).

Dates of Investigation

From: 11-Sep-2024 **To:** 29-Oct-2024

Report Date

Report Date: 17-Feb-2025

Performing Agency/Consultant

Name: SWCA Environmental Consultants

Principal Investigator: Alissa K. Healy

Field Supervisor: Steven Velazquez, Josh Huck

Field Personnel Names: Dil Singh

Historian/Other N/A

Performing Agency Report Number

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341

HPD Log No(s).

Report Details (continued)

Report Number: 25-94

Client/Customer (project proponent)

Name: WPX Energy, Inc.

Contact: Jim Raley

Address: 5315 Buena Vista Drive, Carlsbad, New Mexico 88220

Phone 575-885-1313

Client/Customer Project Number

Project Number:

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Owner/Manager List:	Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
	US Bureau of Land Management Carlsbad Field Office	Class III	0.00	6.07

Total Survey Acreage: 0.00

Total Tribal Acreage: 0.00

Record Search(es)

Date of HPD/ARMS File Review: 09-Sep-2024

Date of Other Agency File Review 10-Sep-2024

Survey Data

Source Graphics: NAD 83

☒ USGS 7.5' (1:24,000) topo map ☐ Other Topo Map Scale:

☒ GPS Unit <1M

☐ Aerial Photos Other Source Graphic(s):

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic Map(s)		County(ies)		Legal Description			
Map Name	USGS Quad Code	County	FIPS	Unplatted	Township (N/S)	Range (E/W)	Section

Projected Legal Description

No

Nearest City or Town: Malaga

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NMCRIS Activity Number: 157341**HPD Log No(s).****Ownership & Location (continued)****Other Description:****Missing Location Information**

No GIS data is associated with this Activity. Map images were not generated.

Methodology**Survey Field Methods****Intensity:** 100% coverage**Configuration:** ☐ Block Survey Units ☐ Linear Survey Units (l x y)**Other Survey Units****Scope:** All Resources**Coverage Method:** ☒ Systematic Pedestrian Coverage **Other Method:****Survey Interval (m):** **Crew Size****Fieldwork Dates** **From** 11-Sep-2024 **To** 29-Oct-2024**Survey Person Hours:** 0.00 **Recording Person Hours** 10.00

Additional Narrative: The project area and a 100-foot cultural buffer were completely covered by qualifying previous surveys; therefore, per consultation with BLM CFO on September 17, 2024, cultural survey was not required. However, the BLM CFO did request a site-specific visit to LA 194774 to complete a full recording of the site as well as a cultural monitor be present for all soil sampling and boring activities conducted by WPX Energy, Inc., or their designated contractor, eTech Environmental & Safety Solutions, Inc., within the project area or within 100 feet of LA 194774.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

Environmental Setting: The project area is in Eddy County within the Chihuahuan Desert Basins and Playas (24a) Environmental Protection Agency Level III ecoregion (Griffith et al. 2006). The Chihuahuan Desert Basins and Playas ecoregion includes deep depressions or grabens filled with sediment to form flat to rolling basins. The typical desert shrubs and grasses within the Chihuahuan Basin and Playas ecoregion are dominated by creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton. Plants observed during the revisitation and monitoring of LA 194774 include creosote, mesquite, brook snakeweed, and various desert forbs and grasses. Common animals include mule deer, coyote, bobcat, cottontail rabbit, jackrabbit, peccary, and various species of field mice, striped skunk, packrat, birds, lizards, and snakes. (Biota Information System of New Mexico 2024).

The elevation within the survey area averages approximately 2,886 feet (878 meters) above mean sea level. The geology underlying the project area consists of Upper Permian (Pqm) Quartermaster Formation deposits (U.S. Geological Survey 2001). Three soil types have been mapped in the project area. Two of the three, Upton-Simona complex, and the

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341**HPD Log No(s).****Methodology (continued)**

Chamberino-Delnorte association are well-drained, with a moderate to high runoff class (Natural Resources Conservation Service 2024).

The climate information for the survey area was compiled using the Carlsbad, New Mexico (291469), climate station data (period of record February 1, 1900, to June 10, 2016). Rainfall for the general project area is most abundant from May through October, averaging 4.14 centimeters (1.63 inches), with September having the heaviest average precipitation. Snowfall is expectedly heaviest between December and January, with an average of 3.10 centimeters (1.2 inches) and can fall from November through April; annual snowfall averages 11.18 centimeters (4.4 inches). The average temperatures are coldest in January at -2.33 degrees Celsius (?C) (27.8 degrees Fahrenheit [?F]) and warmest in July at 35.33?C (95.6?F) (Western Regional Climate Center 2024).

The typical desert shrubs and grasses within the Chihuahuan Basins and Playas ecoregion are dominated by creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton. The typical desert shrubs and grasses within the Chihuahuan Basin and Playas ecoregion are dominated by creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton. Plants observed during the revisitation and monitoring of LA 194774 include creosote, mesquite, brook snakeweed, and various desert forbs and grasses. Mesquite was an important prehistoric resource. Many of the other grasses and plants common to the region were also collected for subsistence and to provide material for non-subsistence use. The most common animals found in the region are mule deer and coyotes.

Also typical to the area are bobcat, gopher, cottontail rabbit, jackrabbit, peccary, and various species of field mice, striped skunk, and pack rat (Biota Information System of New Mexico 2024). There are a variety of birds, including mourning doves and hawks. Numerous lizards and snakes (western diamondback rattlesnake) are also in the project area. Cottontail rabbits were the most frequently observed animal during the survey. Prehistorically, bison were in the region during at least some periods. Bison, antelope, deer, and rabbit were important food resources for the prehistoric inhabitants.

References Cited:

Biota Information System of New Mexico

2024 Database Query for Lea County. Available at: <http://www.bison-m.org/>. Accessed December 2024.

Griffith, G. E., J. M. Omernik, M. M. McGraw, G. Z. Jacobi, C.M. Canavan, T. S. Schrader, D. Mercer, R. Hill, and B. C. Moran

2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Map scale 1:1,400,000. U.S. Geological Survey, Reston, Virginia.

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NMCRIS Investigation Abstract Form (NIAF)**NMCRIS Activity Number: 157341****HPD Log No(s).****Methodology (continued)**

Natural Resources Conservation Service

2024 Web Soil Survey. Available at:

<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed December 2024.

U.S. Geological Survey

2001 New Mexico Resource Geographic Information System Program

(USGS_Geology/nmmapdd83.shp). Available at: http://rgis.unm.edu/data_entry.cfm.

Accessed December 2024.

Western Regional Climate Center

2024 New Mexico Climate Summaries. Climate Summary for Carlsbad, New Mexico

(COOP Station ID No. 291469). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm9569>.

Accessed December 2024.

Percent Ground Visibility**Ground Visibility:** 51-75%

Condition of Survey The area is used today primarily for rangeland and oil and gas exploration. Because of oil and gas development, numerous roads, powerlines, surface and buried pipeline rights-of-way, and well pads are present within and adjacent to the project area. Bioturbation from small to large animals and cattle grazing were also observed.

Area:

Attachments (check all appropriate boxes)

- ☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- ☒ Copy of NMCRIS Map Check (required)
- ☐ LA Site Forms - new sites (with sketch map & topographic map) if applicable
- ☒ LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
- ☐ Historic Cultural Property Inventory Forms, if applicable
- ☐ List and Description of Isolates, if applicable
- ☐ List and Description of Collections, if applicable

Other Attachments

- ☒ Photographs and Log
- ☒ Other attachments **Describe:** BLM FAR Form

Cultural Resource Findings**Investigation Results****Archaeological Sites Discovered and Registered:** 0

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341
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Cultural Resource Findings (continued)

Archaeological Sites Discovered and NOT Registered:	0
Previously Recorded Archaeological Sites Revisited (site update form required):	1
Previously Recorded Archaeological Sites Not Relocated (site update form required):	0
Total Archaeological Sites (visited & recorded):	1
Total Isolates Recorded:	0
HCPI Properties Discovered and Registered:	0
HCPI Properties Discovered And NOT Registered:	0
Previously Recorded HCPI Properties Revisited:	0
Previously Recorded HCPI Properties NOT Relocated:	0
Total HCPI Properties (visited & recorded, including acequias):	0

**If No Cultural
Resources Found,
Discuss Why:**

The project area and a 100-foot cultural buffer were completely covered by qualifying previous surveys; therefore, per consultation with BLM CFO on September 17, 2024, cultural survey was not required. Hence, no new archaeological sites or isolated manifestations (IMs) were observed during the current investigation. However, the BLM CFO did request a site-specific visit to LA 194774 to complete a full recording of the site as well as a cultural monitor be present for all soil sampling and boring activities conducted by WPX's designated contractor, eTech, within the project area and within 100 feet of LA 194774.

Management Summary

Summary: The project area and a 100-foot cultural buffer were completely covered by qualifying previous surveys; therefore, per consultation with BLM CFO on September 17, 2024, a cultural survey was not required. However, LA 194774, while located outside of the project area, falls within the 100-foot cultural buffer. The BLM CFO requested a site-specific visit to LA 194774 to complete a full recording of the site. In addition to the site-specific visit to LA 194774, the BLM CFO also required a cultural monitor be present for all soil sampling and boring activities conducted by WPX Energy, Inc., or their designated contractor, eTech Environmental & Safety Solutions, Inc., within the project area and within 100 feet of LA 194774. The BLM CFO requires all sites near State Line Road within proximity to the Pecos River be monitored during any ground-disturbing activities, regardless of site determinations due to the high volume of cultural resources in this area.

SWCA conducted a full site recording of LA 194774, on lands managed by the BLM CFO in Eddy County, New Mexico. No new archaeological sites or isolated manifestations were observed during the current investigation. LA 194774 is a small lithic procurement site with no associated features or subsurface deposits. The site is located on the slope of a small hill and has been heavily impacted by bioturbation and construction activities. The northern boundary of the site has been destroyed by a buried pipeline corridor, as well as impacted by a north/south trending lease road and buried pipeline near the center of the site. Ten shovel tests have been previously completed in this area and no subsurface material was identified

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 157341 HPD Log No(s).
Cultural Resource Findings (continued)

during the shovel tests. The artifact assemblage at LA 194774 consists of nondiagnostic flaked stone artifacts. During the current visit, a representative artifact sample was recorded. The site has been previously determined as not eligible for the National Register of Historic Places. Based on the findings, SWCA agrees with this determination.

A permitted archaeologist from SWCA was present during all ground-disturbing remediation activities within 100 feet of LA 194774 as required by the BLM CFO monitoring stipulations. The cultural monitors verified and reported that no new cultural resources were identified within the disturbed areas outside the site boundary and that the site was avoided and not impacted. No adverse effects resulted from this undertaking.

In accordance with policies and regulations implementing Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended, the cultural resources inventory was completed to locate, identify, and record any cultural resources that might be affected by the proposed project and to provide recommendations of eligibility for the National Register of Historic Places.

Attachments

Attachment Type	Description	Name	File Type	Upload Date	Upload By
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CHAPTER 1. INTRODUCTION AND PROJECT DESCRIPTION

WPX Energy, Inc. (WPX), a subsidiary of Devon Energy Corporation, contracted SWCA Environmental Consultants (SWCA) to conduct a site-specific survey in support of the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico (Figure 1-1–Figure 1-9). The proposed project is located on land managed by the Bureau of Land Management (BLM) Carlsbad Field Office (CFO), approximately 25.18 kilometers (km) (15.65 miles) southeast of Malaga, New Mexico. The BLM CFO will serve as the lead agency.

The proposed project includes a previous inadvertent release at an existing well pad along State Line Road at the Yates Federal #001 (site), requiring drilling surrounding the well pad site on lands managed by the BLM CFO. The previous inadvertent release was previously surveyed by SWCA in January 2024 under the New Mexico Cultural Resources Information System (NMCRIS) Activity Number (NMCRIS No.) 154841. During the visit in January, SWCA surveyed a 7.95-acre area surrounding an inadvertent release, which included the proposed remediation area as well as a 100-foot-wide cultural buffer. In August of 2024, eTech Environmental & Safety Solutions, Inc. (eTech) reached out to SWCA, on behalf of WPX, to conduct additional cultural investigation for BLM required boring and soil sampling locations surrounding the original remediation area. The soil sampling is required to check for potential chemical levels that may have leached outside the original remediation area. Regardless of the National Register of Historic Places (NRHP) eligibility recommendations or previous determinations, the BLM CFO requires a cultural monitor to be present during drilling activities due to the high volume of known cultural resources in the area. The drilling locations and well pad total 2.45 hectare (6.07 acre) (project area).

The project area and a 100-foot cultural buffer were completely covered by qualifying previous surveys; therefore, per consultation with BLM CFO on September 17, 2024, cultural survey was not required. However, the BLM CFO did request a site-specific visit to LA 194774 to complete a full recording of the site as well as a cultural monitor be present for all soil sampling and boring activities conducted by WPX's designated contractor, eTech, within the project area and within 100 feet of LA 194774. No new archaeological sites or isolated manifestations (IMs) were observed during the current investigation. The Public Land Survey System (PLSS) legal description for the project area is presented in Table 1-1.

Jim Raley is the point of contact for WPX (5315 Buena Vista Drive, Carlsbad, New Mexico 88220; telephone [575] 885-1313). The cultural resources survey was conducted out of SWCA's Albuquerque office; telephone [505] 254-1115), with Alissa K. Healy serving as principal investigator, Courtney Blair as the project manager, Steven Velazquez and Joshua Huck the field supervisors, and Dil Singh as field technicians. Rachel Marti and Maddie Cauthen served as the geographic information system (GIS) specialists. The report was compiled by Nadia Waski. Courtney McNair was the technical editor, and Carolina Wright formatted the report.

Details on the location of investigated archaeological sites, including Archaeological Records Management Section (ARMS) data of previous investigations and archaeological sites and surveys within 0.40 km (0.25 mile) of the survey area, are provided in Appendix A. Locational information is confidential and for official use only—public disclosure of archaeological site locations is prohibited by 16 United States Code 470hh and 36 Code of Federal Regulations 296.18.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

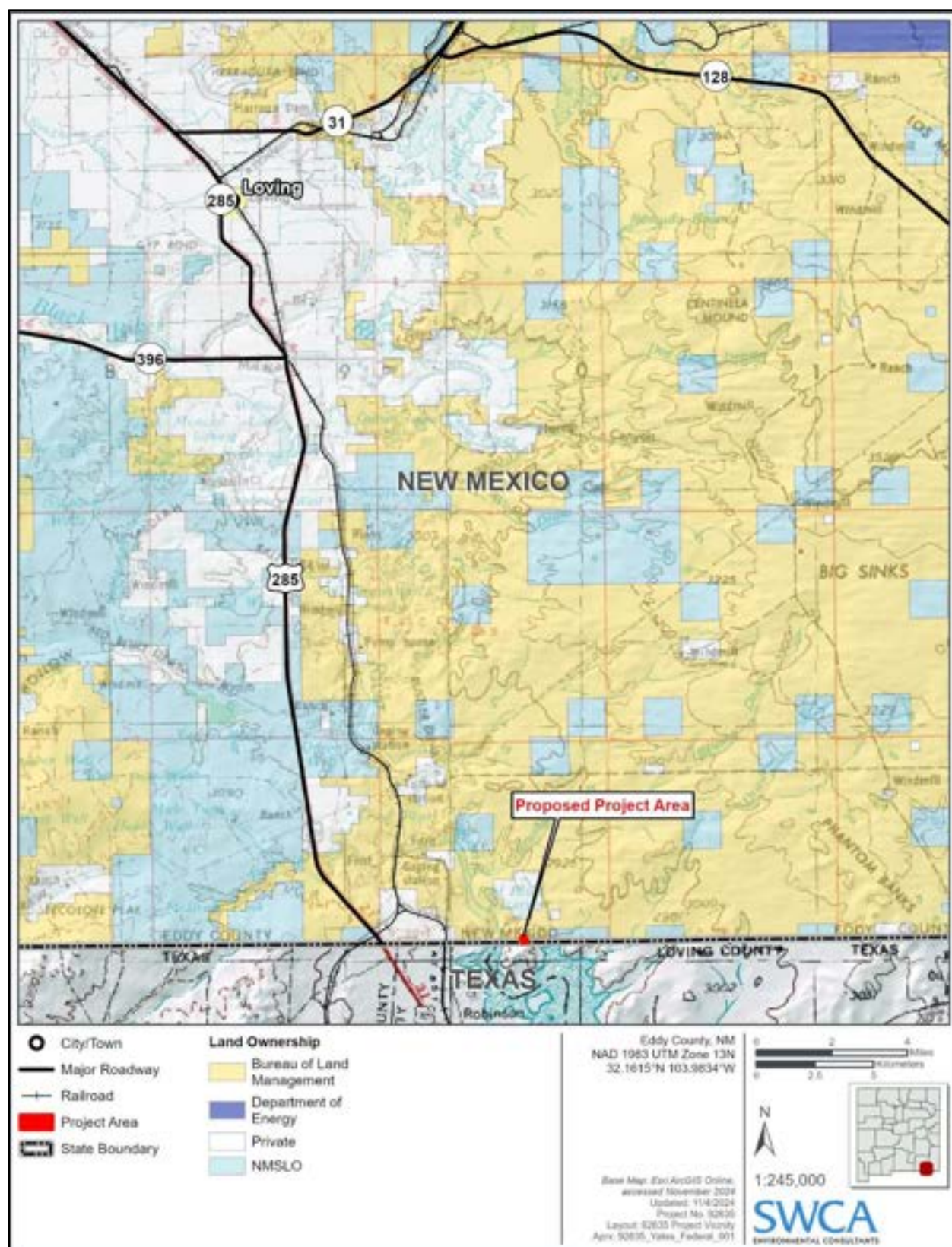


Figure 1-1. Project vicinity map.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

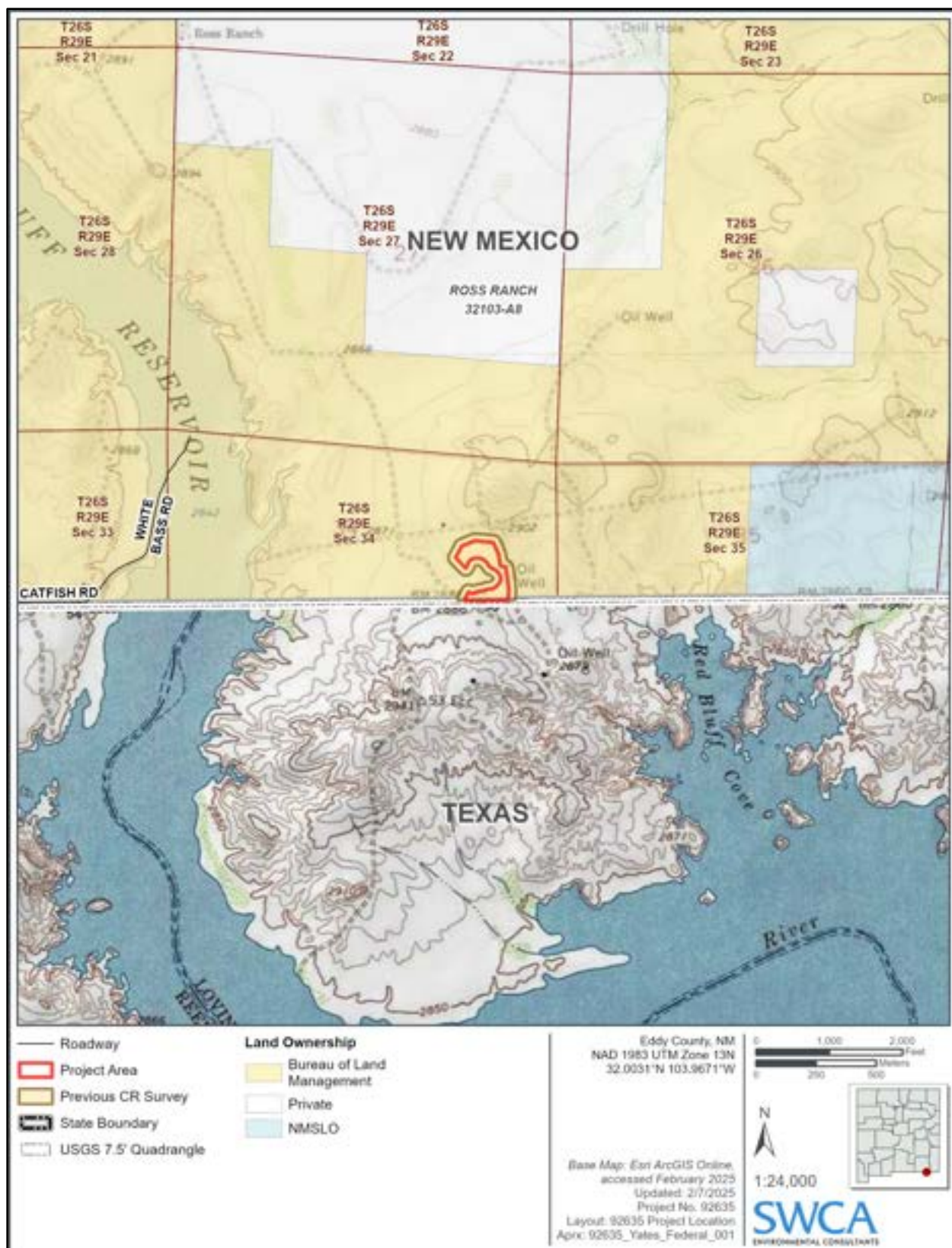


Figure 1-2. Project location map.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 1-3. Overview of proposed boring location, approximately 58 meters (m) southwest of LA 194774, facing west (Frame 9027).



Figure 1-4. Overview of proposed boring location, approximately 16 m southwest of LA 194774, facing west (Frame 8305).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 1-5. Overview of southern access to bore hole locations, avoiding LA 194774, facing southwest (Frame 7766).



Figure 1-6. Overview of bore hole location, approximately 128 m southwest of LA 194774, facing southwest (Frame 7233).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 1-7. Overview of bore hole location, approximately 72 m southwest of LA 194774, facing north (Frame 5375).



Figure 1-8. Overview of mechanically disturbed area running through the northern portion of LA 194774, facing south (Frame 9593).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 1-9. Overview of running through the northern portion of LA 194774, facing west (Frame 9508).

Table 1-1. PLSS Legal Description for the Survey Area

Township	Range	Section	Quarters
26 South	29 East	34	L5, L11, L12

*Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal
#001 Additional Boring Project in Eddy County, New Mexico*

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CHAPTER 2. ENVIRONMENTAL SETTING AND CULTURE HISTORY

The project is in Eddy County, approximately 25.18 km (15.65 miles) southeast of Malaga, New Mexico, on lands managed by the BLM CFO. The elevation of the project area is 2,886 feet (878 m) above mean sea level. The area is used today primarily for rangeland and oil and gas exploration. Because of oil and gas development, numerous roads, powerlines, surface and buried pipeline rights-of-way, and well pads are present within and adjacent to the project area.

ENVIRONMENT AND GEOLOGY

The project area is within the Chihuahuan Desert Basins and Playas (24a) U.S. Environmental Protection Agency Level III ecoregion (Griffith et al. 2006). The Chihuahuan Desert Basins and Playas ecoregion includes deep depressions or grabens filled with sediment to form flat to rolling basins. The geology underlying the project area consists of Upper Permian (Pqm) Quartermaster Formation deposits. Pqm includes deposits of higher gradient tributaries bordering major streams, valleys, alluvial veneers of the piedmont slope, and alluvial fans (U.S. Geological Survey [USGS] 2001).

SOILS

Soils in the project area are assigned to three soil types (Table 2-1). Two of the three types are well-drained with a medium to high runoff class (Natural Resources Conservation Service 2024).

Table 2-1. Soils in the Survey Area

Map Unit Symbol	Map Unit Name	Acres	Percent of Project Area
SR	Stony and Rough broken land	0.20	3.79%
US	Upton-Simona complex, 1 to 15 percent slopes	5.17	95.72%
CDD	Chamerino-Delnorte association, rolling	0.03	0.49%
Total		5.40	100.00

CLIMATE

The climate information for the survey area was compiled using the Carlsbad, New Mexico (291469), climate station data (period of record February 1, 1900–June 10, 2016). Rainfall for the general project area is most abundant from May through October, averaging 4.14 centimeters (cm) (1.63 inches), with September having the heaviest average precipitation. Snowfall is expectedly heaviest between December and January, with an average of 3.10 cm (1.2 inches) and can fall from November through April; annual snowfall averages 11.18 cm (4.4 inches). Average temperatures are coldest in January at −2.33 degrees Celsius (°C) (27.8 degrees Fahrenheit [°F]) and warmest in July at 35.33°C (95.6°F) (Western Regional Climate Center 2024).

FLORA AND FAUNA

The typical desert shrubs and grasses within the Chihuahuan Basins and Playas ecoregion are dominated by creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton. The typical desert shrubs and grasses within the Chihuahuan Basin and Playas ecoregion are dominated

by creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton. Plants observed during the revisitation and monitoring of LA 194774 include creosote, mesquite, brook snakeweed, and various desert forbs and grasses. Mesquite was an important prehistoric resource. Many of the other grasses and plants common to the region were also collected for subsistence and to provide material for non-subsistence use. The most common animals found in the region are mule deer and coyotes. Also typical to the area are bobcat, gopher, cottontail rabbit, jackrabbit, peccary, and various species of field mice, striped skunk, and pack rat (Biota Information System of New Mexico 2024). There are a variety of birds, including mourning doves and hawks. Numerous lizards and snakes (western diamondback rattlesnake) are also in the project area. Cottontail rabbits were the most frequently observed animal during the survey. Prehistorically, bison were in the region during at least some periods. Bison, antelope, deer, and rabbit were important food resources for the prehistoric inhabitants.

CULTURE HISTORY

The culture history of far southeastern New Mexico is a local expression of trends that prevailed over a much larger geographic region. Human prehistory in the area began with the highly mobile hunter-gatherers of the Paleoindian tradition, followed by the Archaic tradition in which hunter-gatherers adapted to changing environmental conditions. The introduction of ceramics marks a major milestone that increased the archaeological visibility and temporal identification of sites in the region, although the prevailing lifeway of highly mobile foraging continued for several centuries, after which some groups in the region established village-type settlements and practiced farming. This lifeway was abandoned, however, prior to the arrival of Europeans and other non-Native Americans in the region.

This chapter presents a summary of culture history, focused broadly on the eastern extension of the Jornada Mogollon region (Leslie 1979) and more specifically on the BLM CFO region, which encompasses the project area.

The following discussion is distilled down from a longer and much more detailed culture history prepared by Jim Railey for the Permian Basin Research Design (Railey 2016). The reader is referred to that document for additional detail and a full bibliography for the area's culture history.

Paleoindian Tradition (11,500–6000 BC)

Humans were present in North America by ca. 11,500 BC (Fiedel 1999), and the Paleoindian tradition dates from this time to approximately 6000 BC. This period spans the climatic transition from the Pleistocene to the Holocene. Climatic conditions were generally cooler and moister but also were changing rapidly, as the vast ice sheets of the north (and alpine glaciers, including ones in the higher mountains of New Mexico) retreated and the climate approached the warmer and more arid conditions of the Holocene. Lanceolate projectile points are the most characteristic artifacts of this tradition. The earlier points in the series exhibit distinct flutes—large flake scars extending up from their bases. In addition to projectile points, unifacial and bifacial scrapers, graters with single, double, and even multiple spurs, and other flake artifacts have been found in Paleoindian tool kits.

In the American Southwest and southern High Plains, the Paleoindian tradition comprises three periods: Clovis (11,500–10,800 BC), Folsom (10,800–9800 BC), and Late Paleoindian (9800–7000 BC). Low population densities prevailed among these early inhabitants of the Americas, who apparently were organized as small-scale, residentially mobile, and socially fluid groups. These conditions, along with wide-ranging exchange and interaction networks maintained by Paleoindians, worked to homogenize projectile point styles and other cultural marker traits over vast areas (although some regional differentiation in style zones becomes apparent over the course of Paleoindian times). Moreover, high mobility and very low population densities mean that Paleoindian sites are rare and have low

archaeological visibility. In the Great Plains and the Southwest, the distinctive Paleoindian projectile points have been recovered in association with the remains of large Pleistocene mammals, such as mammoth, camel, and several bison species, and these discoveries have contributed to an image of Paleoindians as specialized big-game hunters. But a growing number of researchers are questioning this characterization. Some suggest that big-game hunting and the production of exquisite projectile points—typically made from exotic materials obtained from distant sources—may have been motivated more by hunters seeking high status rather than by daily subsistence needs. Still, Paleoindians' use of plant foods was probably highly opportunistic compared to their Archaic successors, perhaps due to highly unstable climatic conditions in late Pleistocene times.

Few identified Paleoindian components are in sites in the CFO region, although their locations suggest concentrations along the Pecos River, the base of the Mescalero Escarpment, and in far southeastern Lea County near what were probably pluvial lakes (Condon and Smith 2012). Data from ARMS obtained for the Permian Basin Research Design (Railey 2016) indicated at that time that there were only seven identified Clovis components in sites in the CFO region, but the number jumps to 27 for Folsom and 29 for the Late Paleoindian period.

Archaic Tradition (6000 BC–AD 500)

The beginning of the Holocene epoch, around 10,000 years ago, corresponds to the termination of major glacial activity, a shift to drier and warmer climates, and the extinction of the Pleistocene megafauna. Concurrent with these changes, prehistoric peoples of the Southwest developed new lifeways and material items during the time referred to by archaeologists as the Archaic tradition. Spanning roughly 6,000 years, the Archaic tradition encompassed several trends. One is population growth, evidenced by the much larger numbers of sites relative to those of the Paleoindian tradition, and increasing numbers of sites for successive Archaic periods and phases. Another trend involves a progressive decrease in residential mobility, indicated by the appearance of structures and other facilities (including storage pits) that suggest a more substantial and long-term commitment to at least certain settlements and localities. Social development over the course of the Archaic tradition probably led to increasingly larger sociopolitical units that inhabited progressively smaller, more sharply defined territories, with one archaeological outcome being an increasing regionalization of artifact styles over time. Archaic peoples intensively utilized a wide variety of plants and animals and developed new strategies to feed larger numbers of people crowded into ever-smaller territories. Such strategies included both subsistence intensification and complex exchange and interaction networks. Increasing population densities (especially after the beginning of Middle Archaic times) and the consequent shrinking of group territories are also typically tied to sociopolitical dynamics involving escalating social conflict, which probably helped further motivate intensified subsistence production.

Archaeologically, the intensification of subsistence practices is best reflected in the appearance and gradually increasing abundance of ground stone implements over the course of the Archaic. Domesticated maize and appreciable farming dependence is evident by the final centuries of the BC time frame in the Rio Hondo drainage to the northwest, but similar trends are not evident in the CFO region for the pre-ceramic time frame. Hunting also provided a significant part of the subsistence economy throughout the Archaic sequence, since food-producing domesticated animals were absent. Contrary to prevailing notions, people may not have exploited a broader range of resources during this time than their Paleoindian predecessors, although they clearly exploited them using less opportunistic, more intensified strategies. New cooking techniques included the use of pit ovens, often involving quantities of heated stones, leaving behind rock-filled pits, scatters of burned rock, and huge rock piles or “ring middens,” which in the CFO region occur mainly along the Pecos River and (especially) to the west.

Besides ground stone implements, Archaic tool assemblages included knives, scrapers, drills, perforators, and numerous stemmed and notched projectile points of various types. Awls, handles, and flakers were fashioned of bone and antler. Although rarely preserved, wood was used for a variety of implements, including spear throwers or atlatls (the bow and arrow did not appear in this area until around the end of the Archaic tradition). Many dry caves and rockshelters have preserved rich assemblages of artifacts made from plants and other perishable materials and underscore the impressive diversity of prehistoric material culture.

The Archaic tradition is commonly divided into three periods—Early Archaic (6000–3200 BC), Middle Archaic (3200–1800 BC), and Late Archaic (1800 BC–AD 500). Across at least most of the CFO region, Archaic peoples pursued a highly mobile lifeway based on hunting and gathering. Radiocarbon frequency trends and other data indicate accelerating population growth during the Late Archaic period. Data for the CFO region from ARMS obtained for the Permian Basin Research Design revealed 110 Early Archaic, 162 Middle Archaic, and 660 Late Archaic components in sites (Railey 2016). Population growth during the Late Archaic was probably helped by improved climatic conditions following the Mid-Holocene Dry period of ca. 5500 to 2000 BC, which probably resulted in a proliferation of new water sources and increased biomass across the Mescalero Plain. Some sites have abundant and dense concentrations of Late Archaic archaeological remains, suggesting repeated visits to particular localities and/or seasonal or occasional large gatherings of socially related groups. Punto de los Muertos (LA 116471) (Wiseman 2003a, 2003b), just outside Carlsbad along the Pecos River, was a Late Archaic stone mound that was badly looted prior to professional excavations and contained human remains with associated grave goods. Among other things, it may have served as some sort of social gathering place and territorial marker, and if so, it underscores the potential effects of population growth and territorial packing.

Formative Tradition (AD 500–1450)

“Formative” is a term commonly applied by archaeologists to the ceramic periods of the Jornada Mogollon region (Miller and Kenmotsu 2004:236–237). The well-dated sequence of sites in the Hondo Valley, northwest of the CFO region, suggests that ceramics appeared there around AD 500 (Campbell and Railey 2008), and this date is used here for the beginning of the Formative tradition. The addition of ceramics to the inventory of artifacts provides a tremendous advantage in recognizing Formative period site components as compared to pre-ceramic ones. Ceramics also enhance temporal resolution and age estimates of site components, especially for the more distinctive, painted wares that can cross-date between different regions. Ceramics, however, may not have been all that common in far southeastern New Mexico during the Early Formative period. At about the same time ceramics appeared in the region, the bow and arrow also arrived. This is inferred from a sharp reduction in the size of projectile points, which occurred across most of sub-boreal North America around AD 400 to 700.

Thanks to both ceramic seriation and abundant radiocarbon dates, the Formative tradition can be divided into two periods: Early (ca. AD 500–1100) and Late Formative (ca. AD 1100–1450), with the appearance of Chupadero Black-on-white ceramic being the most prominent marker separating the two. The successive appearance of particular decorated ceramic types in the Late Formative, along with changes in arrow point forms, point to a two-phase division of this period, divided at ca. AD 1100. Accordingly, this discussion uses the previously established Maljamar (AD 1100–1300) and Ochoa (AD 1300–1450) phases to subdivide the Late Formative. Also included here is the Querecho phase (AD 900–1100), not because of any prominent markers in archaeological assemblages or site characteristics (other than the rare appearance of some decorated pottery types, such as Mimbres Black-on-white), but because it corresponds to the onset of the Medieval Warm Period and a precipitous drop in the number of radiocarbon dates in the CFO region, which is used as proxy for population sizes.

Radiocarbon frequencies indicate that population growth and ubiquitous use of the landscape by highly mobile hunter-gatherers continued after the Late Archaic in the first few centuries of the Early Formative period. However, with the onset of the Medieval Warm Period during the Querecho phase, radiocarbon frequencies plummet sharply in the Mescalero Plain. This suggests increased mortality, out-migration, withdrawal of human groups to now-reduced numbers of reliable water sources, or some combination of these trends. Some groups in the Mescalero Plain may have begun to settle into less mobile lifeways during the Querecho phase, but the evidence for this is at best equivocal. At any rate, the response to the Medieval Warm Period may have helped prompt some fundamental changes in cultural adaptations that took hold during the subsequent Late Formative period.

The Late Formative period indeed witnessed some of the most profound changes in the prehistory of the CFO region. In terms of artifacts, the most prominent temporal indices of this period are a variety of distinct and well-dated, decorated ceramic types. Chupadero Black-on-white and El Paso painted (bichrome and early polychromes, and later just El Paso Polychrome) were present by the beginning of this period, or soon after, eventually edged out undecorated brown wares, and persisted as common types throughout the Late Formative time frame. Other painted and corrugated wares appeared in the Late Formative as well. After AD 1300, exotic ceramic types from a variety of areas in the Southwest appeared in southeastern New Mexico, including Rio Grande glaze wares, Lincoln Black-on-red from the Sierra Blanca highlands, Ramos Polychrome from the Casas Grandes area, and Gila Polychrome from the Salado region. Another post-AD 1300 ceramic type is Ochoa Indented, a Southern Plains type that appears to have been restricted to areas east of the Pecos River. Also, around AD 1200 or 1300, arrow points changed in style from strongly shouldered, corner-notched, or stemmed forms to side-notched specimens.

By AD 1300, if not earlier, substantially occupied “villages” were established across much of the CFO region, from the Mountain Slope area in the west to near the Texas state line in the east. This was part of a widespread pattern of greater sedentism and village formation across the southeastern Great Plains and Jornada Mogollon region in the early to mid-second millennium AD. The appearance of villages corresponds to an increase in bison hunting across the southern High Plains, as well as maize-based farming. Recent investigations at the Merchant Site have provided the clearest evidence to date of these trends in the Mescalero Plain of the CFO region.

These trends also occurred in concert with the development of the Pueblo-Plains Interaction Sphere, which geared up around AD 1300 and in which Plains groups traded hides, dried meat, and perhaps other products to the more settled farmers to the west in exchange for decorated pottery, obsidian, turquoise, scarlet macaws, copper bells, cotton blankets, and maize. Among the key archaeological indicators of this phenomenon is the appearance in the southern Plains of numerous beveled knives and end scrapers that were used to process bison hides. Prior to AD 1450, however, Pueblo-Plains interaction was limited mostly to gift exchange involving small numbers of items.

Post-Formative Native Americans (after AD 1450)

The post-Formative began with the widespread abandonment of late prehistoric villages in the southern Plains around AD 1450, as groups throughout the region shifted to a more nomadic lifeway centered more squarely on bison hunting. Archaeologically, the Post-Formative is somewhat of a phantom, as many of the diagnostic ceramic types largely disappeared along with village sites. Ceramics are either absent in the CFO region at this time or, to the extent they were still in use, consist of types that are largely unknown. People on the west side of the Llano Estacado apparently ceased making pottery at this time, obtaining vessels from the Pueblo societies to the west. Side-notched arrow points, similar to those that appeared after AD 1200 (see above), continued into this period to an unknown date, along with Perdiz points that are characteristic of the Toyah phase in Texas and spill over in small numbers into the CFO region.

During historic times, stone arrow points were replaced by metal points and, eventually, firearms. A metal arrow point at LA 147382, a site along Dog Town Draw in the Pecos River Corridor (not far from the project area), is one of the very few such finds in the region.

As part of the shift to nomadism during post-Formative times, it is reasonable to expect that tipis became a more common dwelling form. Some argue that tipi rings in the region are very late in time, postdating other types of structures. That may be true, but tipi rings date back several thousand years on the Plains, and it is entirely possible that at least some in southern New Mexico predate the post-Formative time frame.

At any rate, by AD 1500, if not earlier, people on the southern Plains had given up their attempts at village life, with its mixed focus on farming and bison hunting, and had become nomadic, tipi-dwelling bison hunters. This probably occurred at least in part due to increased demand from the pueblos for bison products and other resources from the southern Plains (such as Alibates and Edwards chert). As discussed below, during historic times along the western edges of the Plains, the Jumano, Apache, Comanche, and Hispanic ciboleros successively filled the role of mobile hunters who supplied the pueblo and Spanish villagers of the Southwest with meat and other bison products. However, it is unknown if bison hunting was as productive at this time in the CFO region as it was in neighboring areas of the southern High Plains. If not, then the continued drop in the number of radiocarbon dates into the post-Formative and historic time frame may indicate that many people moved out of the CFO region to better bison hunting areas. By the time the earliest Spanish explorers entered the region, there were few Native Americans reported here. Over time, the region became the domain of the Apache and, beginning later, the Comanche.

Historic and Recent Traditions (AD 1500–Present)

When the earliest Spanish explorers entered the Southwest and southern Great Plains, they arrived in a world that had been substantially transformed over the preceding couple of centuries. Throughout most of the historic time frame, Euro-American exploration, settlement, and commercial activities occurred mostly along and beyond the margins of far southeastern New Mexico. As a result, the present-day CFO region remained a remote, little-known expanse, and the domain of nomadic Native Americans until well into the nineteenth century. It was one of the last parts of the state to be settled by Europeans and Americans of European descent.

Initial Spanish Exploration (AD 1540–1598)

Francisco Vásquez de Coronado's 1540–1542 expedition to southwestern North America and the southern Plains passed well to the north of the Carlsbad region during the 1541 journey to the Great Plains in search of the legendary Quivira (Flint and Flint 1997; Hammond and Rey 1940; Winship 1904). Four decades later, the Chamuscado and Rodriguez expedition of 1580–1581 journeyed up the Rio Grande to the pueblos of New Mexico and also traveled eastward onto the Plains in the vicinity of Santa Rosa, again well to the north of the present-day CFO region (Hammond and Rey 1966; Mecham 1926a). The first team of Spaniards known to have traversed the CFO region was the 1582–1583 expedition of Antonio de Espejo, who found the pueblo inhabitants of the Rio Grande valley sufficiently hostile that he returned to Mexico via the Pecos River (Hammond and Rey 1966; Mecham 1926b). This was followed by the illegal colonizing expedition of Gaspar Castaño de Sosa in 1590, which traveled up the Pecos River valley and encountered several deserted Native American camps and groups of nomads (Hammond and Rey 1966:29, 34–35, 48). The following year, a team led by Juan Morlette pursued Sosa and arrested him at Santo Domingo Pueblo. Little is known about Morlette's route, but

he probably followed the Rio Grande to the north and back to Mexico, rather than the Pecos River (Hammond and Rey 1966:298–301).

During their journeys out onto the Plains, these early Spanish entradas witnessed herds of bison and the tipi-dwelling nomads, who moved with the herds using travois pulled by dogs. These “dog nomads” were usually referred to by the earliest Spanish explorers as the “Querecho” or “Vaqueros,” and at least some of them were probably ancestral to historically known Apache groups (Opler 1983a:385–386; Sonnichsen 1973:35). Along with the Navajo, the Apache are Athapaskan speakers whose linguistic homeland lies far to the north in subarctic Canada. These groups moved southward through the western Plains and entered the southern Plains and Southwest probably not long before the arrival of Coronado’s expedition (Opler 1983a).

Non-Apache groups living on the southern Plains and Southwest were also observed by, or reported to, the early Spanish explorers. Among the more prominent of these are the Jumano, whose ethnic identity remains largely a mystery. Kenmotsu (2001) argues that the Jumano were a distinct ethnic group, with a homeland between the Pecos and Colorado Rivers in west Texas, although they ranged widely beyond this area (see also Anderson 1999:15–66). The Jumano apparently had close relations with the Tompiro or Salinas Pueblos (located between the Rio Grande and Pecos River valleys), which were referred to by the Spanish as the “Humanas” or “Ximenas,” and there may have been considerable intermarriage between the occupants of these pueblos and the Jumano (Kenmotsu 2001).

At any rate, the Spanish explorers observed the thriving trade in bison products from the Plains to the pueblos and other surrounding regions, which minimally involved Apache and Jumano groups. However, during the return journey of Espejo’s team from Pecos Pueblo down the Pecos River, they

adhered to the river’s course for a distance of about 120 leagues [i.e., 579 km or 360 miles] without seeing a single human being; nor did they catch a glimpse of the buffalo, although they discovered numerous traces along the way. (Mecham 1926b:135)

There were almost certainly Native inhabitants along the Pecos River in far southeastern New Mexico at the time of Espejo’s traverse, and if so, they probably observed the passing team of explorers from a distance and avoided contact. As a result, unlike the rich accounts of Native peoples in south Texas from Cabeza de Vaca’s journey, and in New Mexico and the Plains region to the north from the Coronado and Chamuscado-Rodriguez expeditions, the earliest entry of Europeans into far southeastern New Mexico has left us with essentially no information about Native peoples and their lifeways. This leaves open an important question as to whether Contact period peoples in this area were more similar to hunter-gatherers of south Texas (who subsisted on a wide variety of foods, including roots and cacti), the nomadic bison hunters to the north, or some combination of both.

Spanish Colonization and Continued Exploration (AD 1598–1821)

The Spanish colonization of New Mexico began in 1598 with the expedition of Juan de Oñate, whose team traveled up the Rio Grande valley, staying well to the west of the CFO region. The ensuing settlement of the region remained focused on the Rio Grande valley, with settlers clustered in the El Paso–Las Cruces and Albuquerque–Santa Fe areas throughout the Spanish Colonial period. However, excursions out onto the Plains—again, well to the north of far southeastern New Mexico—continued. These included a journey in 1601 by Oñate deep into the Plains of present-day Kansas, as part of an investigation of Umana’s and Leyba’s illegal expedition, and a 1634 expedition by Captain Alonzo Baca that probably followed a similar route (Bolton 1916; Hammond and Rey 1953; Simmons 1991; Twitchell 1911:345).

In 1650, Hernán Martín and Diego del Castillo set out from Santa Fe on a journey to the southeast in search of pearls reported by the Jumano Indians living in that direction. This expedition traveled deep into the Edwards Plateau of west-central Texas to El Río de las Perlas (River of Pearls) and El Río de los Nueces (River of Nuts). These place names probably refer to the area around the confluence of the Concho and Middle Concho Rivers, where pearl-bearing freshwater mollusks were found. This expedition was soon followed in 1654 by another, this one led by Diego de Guadalajara, which reportedly followed the same route to the Rio Concho (Bolton 1916; Twitchell 1911:345). One or both of these expeditions may have passed through the CFO region, although their precise routes are not entirely clear, and it is equally possible that both passed just to the north of Lea County.

Following the Pueblo Revolt of 1680 and the subsequent Reconquest in the 1690s, the Spanish more firmly and permanently entrenched themselves in New Mexico. Throughout the seventeenth and eighteenth centuries, relations between the Spanish, Pueblo, and Apache fluctuated between states of mutual hostility and brutality at one extreme, to alliances, trade relations, and even co-residence at the other. The “Apache de Sieto Rios” (Seven Rivers Apache) were first mentioned by the Spanish in 1659 (Opler 1983a), reportedly living within the present-day CFO region. In his published maps, Schlesier (1972) shows the Seven Rivers area lying within the “Pecos Division” of the Southern Plains Athapaskan Aspect in 1692, and the “Siete Rios-Guiklkaide” branch in his maps dated between 1706 and 1768. By the early nineteenth century, the Siete Rios-Guiklkaide branch became one of the five main bands of the Mescalero Apache (Opler 1983b; Schlesier 1972:112).

The spread of horses among Native Americans was catalyzed by the Pueblo Revolt of 1680, as the Spanish fled south and left behind large herds of horses in the Santa Fe area. The historical evidence strongly suggests that the use of horses reached the Apache in far southeastern New Mexico (and any other Native groups that may have been living there) sometime in the 1680s. The spread of the horse had a profound impact on lifeways and geopolitical dynamics among various Native American groups, as well as the Spanish colonists (Hämäläinen 2003). The acquisition of the horse by the Apache, in conjunction with their growing numbers and perhaps superior military tactics, gave them a decisive advantage over their rivals on the southern Plains. They hit the Jumano and other groups especially hard, gaining control of east-west trade routes by 1700 (Hämäläinen 1998:488). But their advantage was short-lived, as the Comanche soon became the main beneficiary of the historical geopolitical shake-up following the spread of the horse.

Belonging to the Eastern Shoshone language group, the Comanche were descendants of Numic speakers whose dramatic expansion was the signature development of late prehistory in the Great Basin (Bettinger and Baumhoff 1982). By the early eighteenth century, the Comanche were specialized, horse-mounted bison hunters concentrated along the Arkansas River in southeastern Colorado and western Kansas (Hanson 1998:470; Richardson 1933), and their important role in New Mexico history commenced during this period. Along with their Numic-speaking linguistic relatives, the Utes, Comanches first appeared as traders in New Mexico in 1706 (Hämäläinen 1998:488; Hanson 1998:469; Richardson 1933:55; Shimkin 1940), and in 1719 they started raiding and trading widely in New Mexico. By 1740, their range expanded southward, extending from western Kansas and southeastern Colorado to south-central Texas, and from the Pecos River on the west to central Kansas, Oklahoma, and Texas on the east.

Relations between the Spanish, Comanche, and other players in the region continued to fluctuate between trading, raiding, and all-out war during the late eighteenth century, and the Comanche-orchestrated trade network suffered some serious setbacks beginning in 1779 and into the 1780s (Hämäläinen 1998:502–503). But the Comanche’s trade capabilities were enhanced and reinvigorated by a peace agreement with Spain in 1786, after which Comancheros (settled traders of Spanish, Pueblo, and other Native American ethnic affiliation) began to trade more actively with the Comanche.

The Spanish also supported further Comanche attacks against Apache groups at this time (Hämäläinen 1998:504–505; Kenner 1969:53–58). Although Comancheros operated mainly to the north, they continued to support their Comanche allies into the Mexican and American periods, when the Comanche made their last stand against the U.S. military in the Llano Estacado.

Mexican and American Periods (AD 1821–1880)

Following the Louisiana Purchase in 1803, most of the Great Plains became part of the United States, and American traders began following their French predecessors into the Plains, and on to New Mexico along the Santa Fe Trail. Mexico's independence from Spain in 1821 further reshaped the geopolitical mosaic of the southern Plains and the Southwest. Mexico's financial troubles adversely affected trade, and relations between the Comanche and New Mexico shifted from an emphasis on exchange to warfare at this time. Meanwhile, incursions by the Arapahoe and Cheyenne into the upper Arkansas River Basin led to intense competition between them and the Comanche based in that area. The once-flourishing Western Comanche trade center was already facing considerable challenges when it was finally brought to an end with the establishment of Bent's Fort in 1833. Bent's Fort was intentionally situated in the same area as the Western Comanche trade center, along the upper Arkansas River (which was then part of the U.S.-Mexico border), to take advantage of the vast trade network's existing geographic nexus and position along the Santa Fe trail (Hämäläinen 1998:512–513).

Texas and New Mexico became part of Mexico after 1821 but were acquired by the United States following the Mexican–American War of 1846–1848. During and after the war, far southeastern New Mexico remained an isolated and largely uncharted frontier occupied by Comanche and Apache peoples. Soon after the Mexican–American War, the United States launched military expeditions that passed through far southeastern New Mexico. The primary purpose of these expeditions was to scout potential transportation routes and document conditions in anticipation of future settlement and development. These include the expeditions headed by Randolph B. Marcy in 1849 and John Pope in 1854, which sought to establish wagon and railway routes between southern New Mexico and west Texas (Sebastian and Larralde 1989:117–118; Sheridan 1975:20–25). When scouting parties reported that the Llano Estacado was impassable due to lack of water, these expeditions and the transportation routes they established veered to the south of the New Mexico–Texas border, where several military forts were already established in the Trans-Pecos area of Texas. Meanwhile, other routes were established to the north of the present-day region (Sheridan 1975:28–31).

As one of the last unsettled frontiers in the United States, far southeastern New Mexico remained well beyond the extent of Euro-American settlement during the first half of the nineteenth century. The ongoing spread of Anglo settlers and ranchers in Texas reached far southeastern New Mexico soon after the Civil War. The Colorado mining boom and operation of military forts to the south resulted in a large demand for beef, and Texas cattlemen were eager to supply that demand (Beck 1962). The west Texas route to Colorado followed the Pecos River to a fording place for crossing the river that intersects with what is now Guadalupe Street in Carlsbad, New Mexico. In 1866, Oliver Loving and Charles Goodnight drove 1,600 cattle up this Pecos River route toward Denver. Along the way, they stopped at Fort Sumner and discovered there was a viable market for their cattle here as well. The following years more cattlemen, including John Chisum in 1867, moved an estimated 100,000 head of cattle north along the Loving-Goodnight trail, as the Pecos route came to be known (Sebastian and Larralde 1989:119–120).

The continued Indian attacks, along with growing Anglo-American interest in southeastern New Mexico and the Llano Estacado, prompted a concerted military effort to explore the region and rid it of these last remaining Native Americans. During the U.S. expeditions to the Llano Estacado in the 1870s, military units camped at springs and other water sources that had been used as Comanche base camps. Meanwhile, to the west, Euro-American settlers were encroaching on the Mescalero Apache, and U.S. military action

resulted in an 1852 treaty that confined the Mescalero to a small reservation near Fort Sumner at Bosque Redondo. The reduced territorial range imposed by the reservation, along with failed attempts to force the Mescalero to become full-time farmers, left them dependent on food rations from the government. Competition over beef contracts helped spark the infamous Lincoln County War of 1878. The dire conditions prompted the Mescalero to resume raiding, which was met with a brutal response by the U.S. military in 1880, and by 1885 the Mescalero were out of options and forced to accept life on their reservation (Opler 1983b:422–424; Sonnichsen 1973:157–162, 193–206).

Euro-American Settlement, Ranching, and Industry

With the threat of Native American attacks removed, Euro-Americans were free to move into far southeastern New Mexico and establish ranches and other settlements. During the 1870s, commercial bison hunters moved into the region. Among these were James Harvey and Dick Wilkerson, who in 1879 claimed squatter's rights at Monument Spring (Murrah 2005:2), making improvements, and by 1885 had killed the last bison in the area. The extermination of the bison coincided with an expansion of cattle ranching efforts in southeastern New Mexico, and ranching dominated the region's agricultural economy during the latter half of the nineteenth century. The Texas cattle drives only lasted 14 years (1866–1880) but were instrumental in populating the area and feeding miners and railroad crews (Katz and Katz 1985). As cattle became the mainstay of the economy in far southeastern New Mexico in the late 1800s, the immense herds and intensity of grazing had a devastating effect on the environment. The coppice dunes that cover much of the Mescalero Plain are a direct result of overgrazing and destabilization of surface sands across the region.

The passage of the Desert Land Act in 1877, the Kinkaid Homestead Act of 1904, and the Enlarged Homestead Act of 1909 facilitated the acquisition of public lands, which effectively ended the open range. These acts of legislation, coupled with the great droughts in the 1880s, brought about the end of the cattle empires (Sebastian and Larralde 1989). In fact, the year 1896 brought about a drought dubbed the “Big One” by locals, in which over 35% of the cattle in the region starved to death (Tracy 1982:64).

With the multiple droughts in the 1880s, John and Charles Eddy decided something must be done in order to keep water flowing in the valley. They purchased wells and started an irrigation ditch—the Halagueno Ditch—that was diverted from the east side of the Pecos River. This ditch would supply their multiple properties with enough water to irrigate their fields and support their interests. A business partner of the Eddys, Joseph S. Stevens, had recently inherited money and, thinking of the great success of irrigation in California, decided it would be smart to invest his money with the Eddys and in the irrigation of the Pecos Valley (Tracy 1982:64). The Pecos Valley Land & Ditch Company was formed by the Eddys and Stevens on October 31, 1887.

Of the homesteading legislation, Desert Land Entry was the most popular in southeast New Mexico, because of the amount of acreage available and the fact that living on the land was not required (Merlan 2008:18). With these options of obtaining land and the encouragement of the Eddy brothers and Stevens, claims were filed in earnest by newcomers and supporters of the Pecos Valley Land & Ditch Company (Tracy 1982:65). At this time, Charles Greene, a local promoter of the railroad and New Mexico in general, came upon the scene. He saw a great opportunity to help build the area and approached Pat Garrett, of Lincoln County War fame, at his ranch and asked him to introduce him to the Eddy brothers. Garrett and Greene traveled from Garrett's Roswell ranch to Charles Eddy's ranch and a new partnership—the Pecos Irrigation & Investment Company—was born in 1888 and a town site was selected. The town of Eddy was laid out, and Greene traveled to Europe to promote the town, and therefore, the company (Tracy 1982:65). Two main irrigation canals were started, but the cost of promoting the town and building the irrigation system took its toll on the money at hand. To combat the shortness of cash, Eddy and R. W. Tansill enlisted the help of J. J. Hagerman, a miner from Colorado.

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Because of Hagerman's money, he was able to direct the structure of the new corporation that was formed, the Pecos Irrigation and Improvement Company. Greene was very successful, and immigrants from Switzerland, Italy, and England poured into the valley. Development of the town and its surrounding area progressed and at one time the Pecos Irrigation and Improvement Company planned on eventually irrigating 1,000,000 acres between Pecos, Texas, and Roswell, New Mexico (Tracy 1982:66).

Realizing that success for the region depended on the ability to transport agricultural products to market, Hagerman also elected to provide the Pecos Valley with a railroad link to the outside world. In 1890, joining forces with Charles Eddy, Hagerman announced the incorporation of the Pecos Valley Railroad Company. The proposed railroad line would connect Eddy and Roswell with Pecos, Texas, and the main line of the Texas & Pacific Railroad. The Pecos Valley Railway reached Eddy (now Carlsbad) in January 1891 and Roswell in 1894 (Schroeder and Jenkins 1974). The railroad brought settlers to the area while crops of cotton and alfalfa (perfect for the Eddy County climate), along with cattle, sheep, and wool, could be moved into and out of the area more efficiently. Eddy and Hagerman parted company in 1895. Hagerman formed a new company, the Pecos Valley and Northeastern Railway, laying 182 km (113 miles) of track from Roswell to Portales, Cameo, and Texico (Boggess 2011).

The Panic of 1893 (caused in part by railroad overbuilding, shaky railroad financing, and a depleted gold supply) set off a series of bank failures, and flooding of the Pecos River devastated the irrigation system, damaged the railroad tracks, and washed out the Avalon Dam and Hagerman Dam (renamed the Tansill Dam). Hagerman's company, the Pecos Irrigation and Improvement Company, declared bankruptcy in 1898, and by 1899 control of the railroad had passed to the Atchison, Topeka & Santa Fe railway. Ongoing difficulties with irrigation, coupled with a long-term drought, unregulated drilling for water, and poor irrigation practices, as well as years of heavy grazing, compounded the problem (Katz 1987). More than half of the cattle died, and beef prices dropped considerably (Katz and Katz 1985). Without water for the land, settlers faced complete ruin. Unable to finance another repair, the Pecos Irrigation and Improvement Company petitioned the federal government to step in and take over the company as well as the Carlsbad Irrigation Project, another irrigation company in the region. In 1905, the Bureau of Reclamation purchased the Carlsbad Irrigation Project and by 1907, the Carlsbad Irrigation Project was fully operational again, irrigating up to 30,000 acres with 233 km (145 miles) of ditches. This led to an increased production of alfalfa and cotton. By 1918, cotton was the major cash crop in New Mexico, grossing \$500,000 that year (Beck 1962). During that period, the New Mexico territory was granted statehood, becoming the forty-seventh state of the union (Schroeder and Jenkins 1974).

Just 16 km (10 miles) southwest of Carlsbad in the northeastern extension of the Guadalupe Mountains, the exploration of bat caves in 1915 changed the Carlsbad region's economy forever. For years, locals collected and sold bat guano as fertilizer from the cave. It was not, however, until Jim White, a local resident, with the aid of Ray Davis and his camera, explored and documented the cave that non-locals took an interest. Tours began with a 52-m (170-foot) descent in a bucket previously used to haul bat guano out of the cave (Uhler 1995). In 1923, the U.S. Department of the Interior sent inspectors to investigate claims about the caves. In his final report Robert Holley stated, "I am wholly conscious of the feebleness of my efforts to convey in the deep conflicting emotions, the feeling of fear and awe, and the desire for an inspired understanding of the Devine Creator's work which presents to the human eye such a complex aggregate of natural wonders" (National Park Service [NPS] 2024). Carlsbad Caverns were designated a National Monument on October 25, 1923. By 1925, a staircase was built at the cave's natural entrance, ending use of the guano bucket to enter the cave. In 1926, the first trail was built by the NPS, and wooden stairs connecting the Main Corridor, King Palace, and Queens Chamber were built and an electric lightening system was installed through the Main Corridor and Kings Palace. Three elevators were installed in the early 1930s.

Cattle ranching was a major economic influence in the area. Some of the largest ranches included the Hat Ranch, the Four Lakes Ranch, and the Jal Ranch. The end of the government's open range policy in the 1890s led to the demise of these and other ranching empires established in the 1880s. They were replaced by smaller cattle operations, sheep ranches, but mostly by homesteaders from Texas and the south (Katz 1987).

Oil was discovered in Eddy County in 1909, but the market for it had to wait for an increase of use in heating plants and in automotive vehicles. After Martin Yates, Jr., brought in a well near Artesia in 1923, so much drilling occurred that by 1938, the southeast corner of the state was "gushing oil," valued then at \$32 million annually. Although Carlsbad was on the far edge of the oilfields, it already had a head start as a trading center and thus naturally became also a headquarters for some of the companies and workers engaged in petroleum industries.

Potash became a major industry for Eddy County in the mid-1920s. "Potash" refers to a variety of salts containing water-soluble potassium acquired through mining or manufacture. The name "potash" is derived from the Old Dutch potaschen, a potassium carbonate (K_2CO_3) that was manufactured by dissolving hardwood ash in solution in iron pots then evaporating the liquid, leaving an ashy residue in the pots. The term "potash" can be applied to potassium carbonate, potassium chloride (KCl), potassium sulfate (K_2SO_4), potassium magnesium sulfate ($K_2SO_4-MgSO_4$), langbeinite ($K_2Mg_2[SO_4]_3$), and potassium nitrate (KNO_3), all of which are commonly referred to as "fertilizer potassium" (Potash and Phosphate Institute 2014). As an element of fertilizer, potash provides a valuable nutrient to plants, improves water retention, and contributes to crop-disease resistance (Boggess 2011). World War II essentially stopped the importation of potash from Germany for processing into fertilizer, thus providing the impetus for exploration of domestic sources of potash. In 1924, Texas Senator Morris Sheppard introduced a bill authorizing additional exploration for potash in Texas and New Mexico (Boggess 2011; Bureau of Mines 1945). A year later, the USGS found potassium-bearing minerals at the Snowden-McSweeney Co.'s McNutt No. 1 Well (Ellis 1929:38). The find led to the formation of the American Potash Company on December 18, 1926. The company, organized by the Snowden-McSweeney Company and the Pacific Coast Borax Company, changed its name in 1929 to United States Potash Company to avoid confusion with the American Potash and Chemicals Company located at California. The West Mine, the first potash mine built in the Carlsbad area, was constructed in 1931. The HB mine opened its second mine, the HD, in 1933. That same year, the United States Potash Company hired Horace Albright, then serving as director of the NPS, as vice-president and general manager. Albright managed the company in Carlsbad and was company president from 1946 to 1956 (Boggess 2011).

The potash industry in the area continued to expand throughout the 1940s in response to World War II and in the 1950s to an increased demand for fertilizer (Boggess 2011). The demand for New Mexico potash continued until inexpensive potash from Canada entered the market in the 1960s. The reduced demand for potash continued into the mid-1980s, with the farming debt crisis in the United States, and the introduction of inexpensive Soviet-made fertilizer in the 1990s. The natural gas Enron fiasco of the early 2000s added to this downtrend, leading to the lowest potash prices on record in 2003. Mine companies in the Carlsbad area became subsidiaries of larger companies that were able to absorb temporary financial setbacks, or mines changed hands entirely. Seven producers worked the Carlsbad area from 1965 to 1982, and by the 1990s the number was reduced to four.

Eddy and Lea Counties

The current survey area is entirely within Eddy County, but the history of Lea County is closely tied to the development of the preceding Eddy County. The two counties continue to evolve together; therefore, a history of both counties is provided.

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Eddy County was named for Charles B. Eddy, a rancher in southeastern New Mexico during the last decades of the nineteenth century. It was created in 1889 from the southeastern portion of Lincoln County and encompassed the entire southeastern corner of New Mexico (Beck 1962). Seven Rivers was named the county seat, but during the 1890 election, a referendum changed the seat from Seven Rivers to Carlsbad (Schroeder and Jenkins 1974). Eddy County was reduced to its current size with the creation of Lea County in 1917 (Beck and Haase 1969; Whisenhunt 1979).

Political struggle over what would become Lea County began in 1912 with the proposal of a new county named Heard County, after Allen C. Heard, founder of the High Lonesome Ranch and the town of Knowles. The proposal was defeated and the creation of the county not attempted again until 1917 with a suggestion of the name Llano County, after the Llano Estacado. Although the suggestion of the name was defeated, Chaves County agreed to the creation of a new county to its east. The leaders of Chaves County insisted on the name of Lea County, after Captain Joseph Calloway Lea, founder of the New Mexico Military Institute in Roswell. Instrumental in the formation of Chaves County, Captain Lea fought for the county to be named after his friend Colonel J. Francisco Chaves. By naming the new county after Lea, they were returning the favor (Julyan 1996). At the time it was created from the eastern portions of Chaves and Eddy Counties, Lea County had no railroads, telegraph, newspaper, or major population centers (Hinshaw 1984).

Along with the town of Eddy, by the late 1800s, small communities were springing up in the future Eddy County, including Stegman (now Artesia), Loving, and Malaga. In 1889, the town of Eddy changed its name to Carlsbad after the famous European spa Carlsbad, Bohemia (now Karlovy Vary, Czech Republic) (Whisenhunt 1979).

Charles B. Eddy, the namesake of Eddy County, was also the promoter of the Carlsbad Irrigation Project, which turned formerly arid land into fertile farms. The Carlsbad Irrigation District was designated a National Historic Landmark on July 19, 1964. Eddy County is also the site of large oil deposits (the first oil strike was in Dayton in 1909) and some of the world's largest potash deposits. Tourism became significant early on for Carlsbad and continues to play a role in Eddy County's economy, drawing 400,000 visitors per year to Carlsbad Caverns National Park.

In 1924, Van S. Welch, Tom Flynn, and Martin Yates drilled the first commercial oil well in southeastern New Mexico (New Mexico Museum of Art 2010). In the wake of the stock market crash of 1929, New Mexico oil and gas producers gathered to discuss industry issues and concerns. They formed the New Mexico Oil Men's Protective Association, now known as the New Mexico Oil and Gas Association. Despite the nation's financial turmoil, New Mexico's oil industry quickly grew, and by 1932, major pipelines extended into Lea County, transporting oil to eastern markets. In the same year, New Mexico established six refineries manufacturing gasoline, kerosene, heating oil, and road oil—a key factor in the development of New Mexico's first asphalt highways. The market value of oil and gas tripled between 1932 and 1942, and New Mexico's oil and gas industry flourished. At this time, the New Mexico Oil Conservation Commission was established, pioneering the controlled production of oil and gas to prevent unnecessary waste. New Mexico's stance helped Congress form the Interstate Oil and Gas Compact Commission, a government entity designed to regulate the nation's petroleum production (New Mexico Museum of Art 2010).

In 1940, the City of Carlsbad obtained land approximately 10 km (6 miles) southwest of town with the intent of building a municipal airport funded by city bonds and the federal Works Progress Administration. Construction was completed in 1941 (Cranston 2013). In 1942, the Carlsbad Municipal Airport was selected by the War Department as the site of an Army Air Corps training center. Temporary headquarters were established at the old Civilian Conservation Corps camp north of Carlsbad until the Carlsbad Army Air Field officially opened in September 1942. The base was used to train bombardiers

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and navigators as the first and only low-altitude D-8-type bombardier school in the country. More than 4,000 students attended the air field's training programs between 1942 and its closure in 1945, including two classes from China and the Carlsbad Civil Air Patrol. There are multiple military geoglyph bombing ranges around the Carlsbad area, some featuring swastikas, factories, ships, and bull's-eyes that can be plainly seen from the air but look like dirt mounds on the ground (Birchell 2010:84–87). After the air field's closure on September 30, 1945, most of the buildings and associated structures were sold and moved or relocated for use elsewhere.

Oil and gas development continued and between 1952 and 1962, additional pipelines were built from the gas fields of northwestern New Mexico to West Coast markets. With distribution channels coast to coast, New Mexico's oil and gas industry thrived and is still active in Eddy and Lea Counties today (New Mexico Museum of Art 2010). Oil and gas development continues to play a dominant role in the region's economy. Eddy County relies heavily on resource extraction, with rich oil and gas deposits and some of the largest potash deposits in the United States. Carlsbad has become the headquarters for several companies and employees engaged in mining and related services. Lea County, sometimes called the "Energy Plex," is one of the state's leading producers of oil and gas. In Eddy and Lea Counties, the mining industry supports the most jobs of any industry (16% and 22%, respectively).

Gone are the cattle barons that owned from 15,000 to 50,000 head of cattle or the "big" sheepmen that owned as many as half a million head. The cattle industry, however, still maintains a presence in the region. The large ranches have been replaced by smaller operations; only a few ranchers own more than 3,000 cows and/or 10,000 to 20,000 sheep. Other industries flourishing in the area include agriculture and the dairy industry; in addition, Lea County is home to a state correctional institution (Lea County 2022).

The once small farming community of Artesia now boasts one the few residential training sites of the Federal Law Enforcement Training Center, mostly for U.S. Border Patrol Agents and U.S. Air Marshals. The training center is situated on the former campus of the College of Artesia, which operated from 1966 to 1971. The Navajo Refinery built in 1960 at Artesia is the largest oil refinery in New Mexico, with the capacity to produce 100,000 barrels a day (Center for Land Use Interpretation 2024).

White's City (named for a Kentucky homesteader, not the White that explored the Carlsbad Caverns), which tourists have to pass through on their way to or from Carlsbad Caverns, is fast becoming a tourist center. People from all over the world send Valentines to be hand stamped at Loving. About 40 km (25 miles) north of Carlsbad, Illinois Camp, site of the first oil discovery east of the Pecos River in 1924, consists of a refinery and a few residents. The same can be said for Loco Hills and Maljamar, settlements that also began as oil camps in the late 1920s. Oil still dominates the Loco Hills and Maljamar economy.

Hobbs, founded in 1907 by a chance meeting between two covered wagons on a trail across the Llano Estacado plain, grew quickly with the discovery of oil in 1928. In 1930, the U.S. Census designated Hobbs the fastest-growing town in America. Today, the Hobbs area continues to dominate New Mexico's oil production (Lea County 2024). In 2006, Hobbs accounted for about 70% of all the oil pumped in the state.

CHAPTER 3. PRE-FIELD INVESTIGATIONS AND FIELD METHODS

PRE-FIELD INVESTIGATIONS

An SWCA archaeologist conducted records searches on September 9, 2024, using the NMCRIS database maintained by the New Mexico Historic Preservation Division (HPD). Database records were searched for previously recorded archaeological sites, properties, districts, historical markers, and previously conducted archaeological surveys in and within 400 m (0.25 mile) of the survey area (per BLM standards). The HPD and NRHP database records searches were concurrently conducted for properties listed in the NRHP and/or the State Register of Cultural Properties within 400 m (0.25 mile) of the survey area. Results of the records searches showed that seven previous investigations have been completed within 400 m (0.25 mile) of the survey area. In total, three previously recorded sites were located within 400 m (0.25 mile) of the survey area. Records search data are summarized in Appendix A. Additionally, the BLM CFO specified that any site within 100 feet of the project area should be visited and updated. Updating the sites included locating and recording all features and artifacts and establishing a new site boundary, if required.

FIELD METHODS

The site recording was conducted by Josh Huck and Dil Singh on September 16, 2024, on BLM CFO land. Cultural resource monitoring of ground-disturbing activities occurred on October 17, 2024, and again between October 22 to 25, 2024 by Steven Velazquez.

Field protocol dictates that the recording of cultural locations be initiated with the pin-flagging of artifacts and other cultural manifestations. IMs were defined by nine or fewer artifacts, an isolated feature with no potential for dating, or manifestations that are not related to other nearby IMs or sites. Archaeological sites are defined as locations dating to an age, or likely age, of 50 years (pre-1974) or more that contain 10 or more artifacts or as a feature or features associated with any artifacts meeting the 50-year age criterion.

Cultural locations were described and recorded according to current archaeological standards using ODK Collect and NextGIS Mobile software. ODK Collect documents archaeological data (artifacts, features, etc.), and NextGIS Mobile is used to record spatial data (site and survey boundaries). Both programs were run on Samsung Galaxy Android tablets connected to a Juniper Geode GPS receiver. Resource recording consisted of preparing a plan map (post-field, using GPS data), taking photographs, completing a New Mexico Laboratory of Anthropology (LA) site form, recording all artifacts and features, and recording resource boundaries with the GPS system. All GPS data were collected using submeter accuracy.

All cultural resources were assessed for NRHP eligibility in accordance with BLM CFO resource standards (BLM 2024). Eligibility recommendations need to be well supported with documentation that addresses criteria for evaluation including:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

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- B.** That are associated with the lives of persons significant in our past; or
- C.** That embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possesses high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D.** That has yielded or may be likely to yield, information important in prehistory or history.

In the case of newly recorded cultural resources, all surficial artifacts and features were individually flagged, diagnostic artifacts point-located (PL), and the PL artifacts and features were recorded using a GPS unit with submeter capabilities. For any debitage found, maximum flake size in 1-cm increments (e.g., 0–1 cm, 1–2 cm, 2–3 cm), percent cortex, and material type were recorded. For any ground stone, stone-tool manufacturing artifacts, and lithic tools found, type (e.g., mano, projectile point, core, metate, biface); maximum length, width, and thickness (in cm); completeness (broken or complete); material; and percent cortex were recorded. Recorded ceramic attributes include ware, type, form (e.g., bowl, jar, plate), and portion (e.g., rim, body). All projectile points and other formal tools were photographed with a centimeter scale. Other objects, including ceramics, bifaces, and ground stone, were photographed to illustrate assemblage diversity. If identified, diagnostic projectile points were to be collected and deposited with the BLM CFO with the information data tags to associate the artifact with the exact day and place it was recovered.

If 100 or fewer artifacts are observed at a site, all surface artifacts will be recorded. At sites with more than 100 artifacts, concentrations are defined, and a representative sample of artifacts are fully recorded, as described above, for at least 100 artifacts per artifact type. All lithic tools and ground stone artifacts, as well as features, were fully recorded. All field records from the survey are on file at SWCA's Albuquerque office (see Chapter 1 for contact information).

CHAPTER 4. SURVEY RESULTS

SWCA revisited and fully recorded LA 194774 on lands managed by the BLM CFO in Eddy County, New Mexico. No new archaeological sites or IMs were observed during the current investigation.

LA 194774

Additional Site Numbers: ATM 02

Universal Transverse Mercator (UTM)/PLSS Data: See Appendix A

USGS: Ross Ranch (32103-A8)

County: Eddy

Elevation: 881 m (2,894 feet)

Landowner: BLM CFO

Cultural Affiliation and Age: Unknown Aboriginal (9500 BC to AD 1880)

Site Type: Artifact scatter

Size: 6,252 m² (67,296 square feet, or 1.54 acres)

NRHP Eligibility: Not Eligible

Management Recommendations: No further management is recommended. If additional ground-disturbing activities are required within this area, a cultural resources monitor will need to be present per BLM CFO requirements.

Previous Investigation

LA 194774 was previously recorded three times prior to the current inventory. The original recording was completed by SWCA in July 2019 under NMCRIS No. 143803 (Hurt et al. 2019). The site measured 117 m × 102 m and was described as a prehistoric lithic procurement and core reduction area, located in a low area on a slope of a small hill. The Pecos River is located approximately 1.28 km (0.79 mile) to the west. Disturbances to the site area included a buried pipeline corridor and lease road on a north to south orientation, both of which are associated with oil and gas development in the area, as well as alluvial erosion, eolian deflation, and bioturbation. A sample of 140 artifacts was recorded, consisting of 104 flakes, 25 tested cobbles, and 11 cores. No features or burned caliche were observed. Based on the lack of diagnostic artifacts, LA 194774 was assigned an Unknown Aboriginal (9500 BC to 1880 AD) cultural and temporal affiliation. Ten shovel tests were completed across the site, ranging from 12 to 59 cm below the ground surface. All were negative for subsurface cultural deposits.

The second recording was completed by SWCA in 2020 under NMCRIS No. 146137 (DeVries 2020), during construction monitoring for a buried pipeline corridor running in the northern portion of the site. No subsurface cultural materials were observed during the ground-disturbing activities. The third recording was completed in 2022 by Boone Archaeological Consultants, LLC, under NMCRIS No. 152114 (Galassini and Broxson 2023). As a result of this study, the site boundary was adjusted to reflect a buried pipeline corridor along the site's northern border. During this visit, 30 flakes, 15 cores, 10 tested cobbles, two tertiary flakes, one piece of lithic scatter, one scraper, and one mussel shell fragment were identified in the assemblage. No features or burned caliche were observed, and no subsurface testing was conducted. The past construction and installation of an existing buried pipeline destroyed approximately 33% of the site.

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SWCA recommended the site as not eligible for the NRHP due to the inadequate data potential limited to the surficial artifact assemblage and lack of intact subsurface deposits. The BLM and New Mexico State Historic Preservation Office (SHPO) concurred with this assessment in 2020 (HPD Log No. 112605). When the site was revisited later by archaeological monitoring efforts, no subsurface cultural materials were observed during ground-disturbing activities. The BLM CFO further determined LA 194774 as not eligible for the NRHP in 2021. The SHPO also determined the site as being eligible in 2023 (HPD Log No. 119028).

Current Investigation

SWCA revisited LA 164774 on September 16, 2024, and again on October 17, 2024. The site is a sparse prehistoric artifact scatter (n=22) with no subsurface cultural deposits or features. The site measures 121 m × 57 m and is located on a hillslope of a small hill with a boulder outcrop within the eastern site extent (Figure 4-1 through Figure 4-4, Appendix A.2). The Pecos River Valley is visible to the west, Tucker Draw is located approximately 4.51 km (2.8 miles) to the east, and the Pecos River is approximately 1.17 km (0.73 mile) west. The site is approximately 0.51 mile north of the Texas/New Mexico state line. There are a few ephemeral drainages throughout the site that feed into larger drainages outside the site boundary. The vegetative community consists of the Desert Scrubland biotic environment and consists of creosote, mesquite, broom snakewood, and various grasses and forbs. Overall ground visibility is estimated to be 51% to 75%.

LA 194774 is in poor condition and estimated to be at 26% to 50% intact. The northern portion of the site has been destroyed by a buried pipeline corridor, which as impacted approximately 30% of LA 194774. Other impacts included infrastructure development, bioturbation, and wind and water erosion. A gravel access road trends north to south through the center of the site boundary.



Figure 4-1. LA 194774, site overview with a road running through the site on a north to south orientation, facing north (Frame 8550).

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Figure 4-2. LA 194774, site overview with a road running through the site and oil equipment in background, facing southwest (Frame 8211).



Figure 4-3. LA 194774, site overview with a recent pipeline running through the site on an east to west orientation, facing east (Frame 7953).



Figure 4-4. LA 194774, site overview with large boulders visible, facing west (Frame 4803).

Features

No features were observed during this investigation.

Materials Identified

Previous investigations recorded a sample assemblage of 140 prehistoric artifacts; however, the current recording of LA 194774 observed an artifact assemblage comprised of only 22 prehistoric artifacts. All surface artifacts and PL artifacts were recorded and analyzed in-field. The assemblage is composed of 20 pieces of lithic debitage, one multidirectional quartzite core (PL 1) and one tested cobble (Table 4-1 to Table 4-3). The debitage consists of quartzite (n=8), igneous (n=6), grey chert (n=3), white chert (n=1), chalcedony (n=1), and rhyolite (n=1) material types.

Table 4-1. Lithic Debitage Observed at LA 194774

Material Color/Type	Maximum Length of Flake (cm)							Type Total	Material Total
	Type	0–1	1–2	2–3	3–4	4–5	5+		
Quartzite (brown, purple, tan)	Whole cortical flake				1	3	2	6	8
	Whole noncortical flake						1	1	
	Broken cortical flake				1			1	
Igneous, other (fine grain)	Whole cortical flake				1	2	3	6	6

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Material Color/Type	Maximum Length of Flake (cm)						Type Total	Material Total
	Type	0–1	1–2	2–3	3–4	4–5	5+	
Chert (white, gray)	Whole cortical flake				1		1	4
	Broken noncortical flake		1				1	
	Broken noncortical shatter				1		1	
	Noncortical shatter		1				1	
Chalcedony	Whole noncortical flake				1		1	1
Rhyolite	Whole noncortical flake						1	1
Total								20

Table 4-2. PL Artifacts Observed at LA 194774

PL No.	Material Type	Artifact Type	Dimensions (cm)	Description
1	Quartzite	Core	8.1 × 6.0 × 5.2	Seven flake scars, multidirectional

Table 4-3. Non-PL Artifacts Observed at LA 194774

Material Type & Texture	Size Class (maximum dimension in cm)			Cortex (Present/Absent)	Description
	Small (< 5 cm)	Medium (5 to 10 cm)	Large (> 10 cm)		
Igneous, other, fine-grained			1	Less than 50%	1 flake scar, tested cobble

Site interpretation and Chronology

LA 194774 is a small prehistoric artifact scatter. Debitage suggests expedient tool making activities, and the site may have been used as a temporary resource procurement camp and place of lithic reduction. The assemblage is low in density and lacks any formal lithic tools. No features were observed, and no evidence of subsurface potential was noted during previous site visits, when 10 shovel tests were excavated to determine the site's depositional potential. The tests ranged from 12 cm to 59 cm below ground surface and were all negative for cultural materials. During the current investigation, no diagnostic materials or features were observed and therefore SWCA is unable to provide an updated assessment of the site's chronology. Due to a lack of diagnostic materials, features, and buried subsurface deposits, LA 194774 has been determined to be of an Unknown Aboriginal (9500 BC–AD 1880) period.

Eligibility Recommendations

Following the previous recordings, LA 194774 has been previously determined not eligible for the NRHP by BLM (HPD Log No. not entered, dated 5/3/2021, 2/19/2020, and 1/13/2023) and the SHPO (HPD Log No. 112605, dated 3/3/2020). SWCA observed a smaller artifact assemblage than has been recorded during prior visits and noted that the site remains devoid of surface features that may indicate additional potential for intact subsurface cultural deposits. The site is not associated with a significant event or person and is therefore not eligible under Criterion A or Criterion B, respectively. The site does not represent a distinctive architectural style or the work of a master and therefore is not eligible under Criterion C. Previous site testing and monitoring of ground-disturbing activities has not yielded evidence

of intact subsurface deposits; therefore, SWCA recommends that LA 194774 remain as not eligible for the NRHP.

Management Recommendations

LA 194774 is not eligible for the NRHP. However, BLM CFO requested SWCA complete a site-specific visit to LA 194774 to fully record the site, as well as a cultural monitor be present for all soil sampling and boring activities conducted by WPX or eTech within the project area or within 100 feet of LA 194774.

Project Impacts

The project has been completed, and a monitor was present for all ground disturbances within 100 feet of the site and within the project area itself. No bores were conducted within the site boundary. The closest bore hole was 16 m (52 feet) southwest of LA 194774. No direct impacts were made to the site. No further management is recommended at this time.

Monitoring of Remediation Activities

Permitted archaeologists from SWCA were present on October 17, 2024, and again from October 22 to 25, 2024, and monitored all ground-disturbing remediation activities within the project area as well as within 100 feet of LA 194774 as required by the BLM CFO monitoring stipulations (Figure 4-31 to Figure 4-38). Fencing was placed around the site where the remediation was less than 100 feet from the site. Remediation activities included constructing ramps to allow machinery into the impacted area, removing contaminated soils, and replacing them with clean soils, and boring to test for soil contamination. The cultural monitors verified and reported that no new cultural resources were identified within the disturbed areas and that the site was avoided and not impacted. No adverse effects resulted from this undertaking.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 4-5. The finished bore hole approximately 63 m south of LA 194774, view facing southeast (Frame 1702).



Figure 4-6. Boring in progress, approximately 58 m southwest of LA 194774, view facing west (Frame 2571).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 4-7. Overview of proposed access to drilling locations south of LA 194774, facing southwest (Frame 3302).



Figure 4-8. Overview of finished bore hole, located approximately 58 m southwest of LA 194774, facing south (Frame 2943).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 4-9. Overview of boring progress, approximately 63 m south of LA 194774, facing south (Frame 7354).



Figure 4-10. Overview of boring in progress, approximately 16 m southwest of LA 194774, facing north (Frame 7830).

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico



Figure 4-11. Overview of boring in progress, approximately 63 m south of LA 194774, facing southwest (Frame 7601).



Figure 4-12. Overview of the completed bore hole, approximately 63 m south of LA 194774, facing east (Frame 4868).

CHAPTER 5. SUMMARY OF ELIGIBILITY AND MANAGEMENT RECOMMENDATIONS

SWCA conducted a site-specific inventory in support of the Yates Federal #001 Additional Boring Project on lands managed by the BLM CFO in Eddy County, New Mexico (Table 5-1). No new archaeological sites or IMs were observed during the current investigation.

LA 194774 is a prehistoric artifact scatter and is located low on the slope of a small hill that has been heavily impacted by wind and water erosion and construction activities. The northern portion of the site has been destroyed by a buried pipeline corridor. It has been divided by a north/south trending road by a lease road and a buried pipeline. The site boundary had been previously adjusted to reflect the buried pipeline corridor. During the current visit, a lower-density artifact assemblage was recorded at LA 194774. In addition, much of the previously identified artifact concentrations were not identified. The site has been previously determined not eligible for the NRHP. Based on the findings, SWCA agrees with this previous determination.

Permitted archaeologists from SWCA were present during all soil sampling and boring activities conducted by WPX, or eTech within the project area or within 100 feet of LA 194774, as required by the BLM CFO monitoring stipulations. The cultural monitors verified and reported that no new cultural resources were identified within the disturbed areas and that the site was not impacted. No adverse effects resulted from this undertaking.

Table 5-1. Site Summary, Eligibility, and Mitigation Recommendations

Site No.	Site Type/Cultural Affiliation and Dates	NRHP Eligibility Recommendation/ Criterion	Recommended Mitigation
LA 194774	Unknown Aboriginal (9500 BC to AD 1880)	Not eligible	Monitoring of ground-disturbing activities occurred during construction. No further management is recommended for this undertaking.

*Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal
#001 Additional Boring Project in Eddy County, New Mexico*

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CHAPTER 6. REFERENCES CITED

- Anderson, Gary C. 1999. *The Indian Southwest, 1580-1830: Ethnogenesis and Reinvention*. University of Oklahoma Press, Norman.
- Beck, Warren A. 1962. *New Mexico: A History of Four Centuries*. University of Oklahoma Press, Norman.
- Beck, Warren A., and Ynez D. Haase. 1969. *Historical Atlas of New Mexico*. University of Oklahoma Press, Norman.
- Bettinger, Robert L., and Martin A. Baumhoff. 1982. The Numic Spread: Great Basin Cultures in Competition. *American Antiquity* 47(3):485–503.
- Biota Information System of New Mexico. 2024. Database Query for Lea County. Available at: <http://www.bison-m.org/>. Accessed December 2024.
- Birchell, Donna Blake. 2010. *Images of America: Carlsbad and Carlsbad Caverns*. Southeastern New Mexico Historical Society and the Carlsbad Public Library. Arcadia Publishing, Charleston, South Carolina.
- Bogges, Douglas H. M. 2011. *A Historical Context of Potash Mining at Four Mines in Eddy and Lea Counties, New Mexico*. Lone Mountain Archaeological Services, Albuquerque, New Mexico.
- Bolton, Herbert E. (editor). 1916. *Spanish Exploration in the Southwest, 1542-1706*. Charles Scribner's Sons, New York, New York.
- Bureau of Land Management (BLM). 2024 *Standards for Survey, Site Evaluation, and Reporting for the Bureau of Land Management-Carlsbad Field Office*. On file, Bureau of Land Management, Carlsbad Field Office, Carlsbad, New Mexico.
- Bureau of Mines. 1945. *New Mexico Potash, Eddy County, New Mexico*. War Minerals Report 432. Department of the Interior, Bureau of Mines, Washington, D.C.
- Campbell, Kirsten, and Jim A. Railey (editors). 2008. *Archaeology of the Hondo Valley, Lincoln County, New Mexico: Archaeological Investigations Along US 70 from Ruidoso Downs to Riverside*. New Mexico Department of Transportation, Cultural Resource Technical Series 2006-1. SWCA Environmental Consultants and Parsons Brinckerhoff, Albuquerque, New Mexico.
- Center for Land Use Interpretation. 2024. The Center for Land Use Interpretation. Available at: <http://clui.org/ludb/site/navajo-refinery>. Accessed December 2024.
- Condon, Peter C., and Calvin Smith. 2012. Examining Paleoindian Settlement Patterns in Far West Texas and Southeastern New Mexico: A Discussion on Current Evidence and Interpretation. Poster presented at the Seventy-seventh Annual Meeting of the Society for American Archaeology, Memphis, Tennessee.
- Cranston, V. 2013. Only Memories Remain: The Carlsbad Army Air Field Was Once a Thriving Military Operation. Formerly available at: http://www.currentargus.com/ci_22707499/only-memories-remaincarlsbad-army-air-field-was. Last Accessed June 24, 2014.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

- DeVries, Alex. 2020. Cultural Resource bore and Construction Monitoring for the EnLink Tiger Inlet and Residue to El Paso Project in Eddy County. SWCA Environmental Consultants Report No. 20-527. Albuquerque, New Mexico.
- Ellis, Robert W. 1929. *New Mexico Mineral Deposits Except Fuels*. University of New Mexico Bulletin No. 167. Palacio Press, Albuquerque, New Mexico.
- Fiedel, Stuart J. 1999. Older than We Thought: Implications of Corrected Dates for Paleoindians. *American Antiquity* 64:95–115.
- Flint, Richard, and Shirley Cushing Flint. 1997. *The Coronado Expedition to Tierra Nueva*. University Press of Colorado, Boulder.
- Galassini, Stacy K., and Joshua W. Broxson. 2023. A Class III Archaeological Survey for the ETX Texas, Ltd. Proposed Mewbourne Johnson Estate Gas Delivery, Eddy County, New Mexico. Boone Archaeological Services of New Mexico Report No. BARC 11-22-15. Roswell, New Mexico.
- Griffith, G. E., J. M. Omernik, M. M. McGraw, G. Z. Jacobi, C.M. Canavan, T. S. Schrader, D. Mercer, R. Hill, and B. C. Moran. 2006. Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Map scale 1:1,400,000. U.S. Geological Survey, Reston, Virginia.
- Hämäläinen, Pekka. 1998. The Western Comanche Trade Center: Rethinking the Plains Indian Trade System. *The Western Historical Quarterly* 29(4):485–513.
- . 2003. The Rise and Fall of Plains Indian Horse Cultures. *The Journal of American History* 90(3):833–862.
- Hammond, George P., and Agapito Rey. 1940. *Narratives of the Coronado Expedition 1540-42. Coronado Cuarto Centennial Publications, 1540-1940*. Vol. 2. University of New Mexico Press, Albuquerque.
- . 1953. *Don Juan de Oñate, Colonizer of New Mexico, 1595-1628*. University of New Mexico Press, Albuquerque.
- . 1966. *The Rediscovery of New Mexico, 1580-1594*. University of New Mexico Press, Albuquerque.
- Hanson, Jeffery R. 1998. The Late High Plains Hunters. In *Archaeology on the Great Plains*, edited by W. Raymond Wood, pp. 456–480. University Press of Kansas, Lawrence.
- Hinshaw, Gil. 1984. Lea, New Mexico's Last Frontier. *Hobbs Daily News-Sun*, Hobbs, New Mexico.
- Hurt, Teresa, Alissa Healy, and Jennifer Summers. 2019. A Class III Cultural Resource Survey for the EnLink Tiger Loop Pipeline Right-of-Way Project in Eddy County, New Mexico. Report Number 19-491. SWCA Environmental Consultants, Albuquerque, New Mexico.
- Julyan, Robert. 1996. *Place Names of New Mexico*. University of New Mexico Press, Albuquerque.
- Katz, Paul R., and Susana R. Katz. 1985. *The History of the Carlsbad Basin, Southeastern New Mexico: Technical Report of Historic Archaeological Investigations in the Brantley Project Locality*. Incarnate Word College, San Antonio, Texas.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

- Katz, Susana R. 1987. *Archaeological Mitigation at Soil Conservation Site No. 8 Cottonwood-Walnut Watershed, Chaves and Eddy Counties, New Mexico*. Prepared for Soil Conservation Service, Contract No. 53-803-6-946. PRIAM, Kampsville, Illinois.
- Kenmotsu, Nancy A. 2001. Seeking Friends, Avoiding Enemies: the Jumano Response to Spanish Colonization, AD 1580-1750. *Bulletin of the Texas Archaeological Society* 72:23-43.
- Kenner, Charles L. 1969. *The Comanchero Frontier: A History of New Mexican-Plains Indian Relations*. University of Oklahoma Press, Norman.
- Lea County. 2024. About Lea County: History. Available at: <https://www.leacounty.net/p/open-government/about>. Accessed December 2024.
- Leslie, Robert H. 1979. The Eastern Jornada Mogollon: Extreme Southeastern New Mexico (A Summary). In *Jornada Mogollon Archaeology: Proceedings of the First Jornada Conference*, edited by P. H. Beckett and R. N. Wiseman, pp. 179-199. New Mexico Historic Preservation Division, Santa Fe, New Mexico.
- Mecham, Lloyd J. 1926a. The Second Spanish Expedition to New Mexico. *New Mexico Historical Review* 1(3):265-267.
- . 1926b. Antonio de Espejo and His Journey to New Mexico. *The Southwestern Historical Quarterly* 30(2):114-138.
- Merlan, Thomas. 2008. *Historic Homesteads and Ranches in New Mexico: A Historic Context*. Professional Services Contract No. 08 505 700 0021. Historic Preservation Division, Office of Cultural Affairs, State of New Mexico, Santa Fe, New Mexico.
- Miller, Myles R., and Nancy A. Kenmotsu. 2004. Prehistory of the Jornada Mogollon and Eastern Trans-Pecos Regions of Texas. In *The Prehistory of Texas*, edited by Timothy K. Pertulla, pp. 205-265. Texas A&M University Press, College Station.
- Murrah, David. 2005. Shafter's Prairie Lighthouse. *The Cyclone (Newsletter of the West Texas Historical Association)* XII(1):1-2.
- National Park Service (NPS). 2024. Carlsbad Caverns National Park: Lure of the Unknown. NPS History eLibrary. Available at: <http://npshistory.com/publications/cave/index.htm>. Accessed December 2024.
- Natural Resources Conservation Service. 2024. Web Soil Survey. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed December 2024.
- New Mexico Museum of Art. 2010. New Mexico Art Tells New Mexico History: Mining. Available at: <http://online.nmartmuseum.org/nmhistory/growing-new-mexico/mining/history-mining.html>. December 2024.
- Opler, Morris E. 1983a. The Apachean Culture Pattern and Its Origins. In *Handbook of North American Indians, Vol. 10: Southwest*, edited by Alfonso Ortiz (William Sturtevant, general editor), pp. 368-392. Smithsonian Institution, Washington, D.C.
- . 1983b. Mescalero Apache. In *Handbook of North American Indians, Vol. 10: Southwest*, edited by Alfonso Ortiz (William Sturtevant, general editor), pp. 419-439. Smithsonian Institution, Washington, D.C.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

- Potash and Phosphate Institute. 2014. What is Potash Anyway? Available at: <https://www.ipni.net/ppiweb/agbrief.nsf/5a4b8be72a35cd46852568d9001a18da/2629c24c4f70196d8525714700587f84!OpenDocument>. Accessed December 2024.
- Railey, Jim A. 2016. *Permian Basin Research Design 2016–2026*. Bureau of Land Management, Carlsbad Field Office. SWCA Environmental Consultants, Albuquerque.
- Richardson, R. N. 1933. *The Comanche Barrier to South Plains Settlement*. A.H. Clark, Glendale, California.
- Schlesier, Karl H. 1972. Rethinking the Dismal River Aspect and the Plains Athapaskans, AD 1692-1768. *The Plains Anthropologist* 17(56):101–133.
- Schroeder, Albert H., and Myra Ellen Jenkins. 1974. *A Brief History of New Mexico*. Published for the Cultural Properties Review Committee in Cooperation with the State Planning Office. University of New Mexico Press, Albuquerque.
- Sebastian, Lynne, and Signa Larralde. 1989. *Living on the Land: 11,000 Years of Human Adaptation in Southeast New Mexico*. Cultural Resource Series No. 6. Bureau of Land Management, New Mexico State Office, Santa Fe.
- Sheridan, Tom. 1975. *The Bitter River: A Brief Historical Survey of the Middle Pecos River Basin*. Bureau of Land Management, Roswell District Office, Roswell, New Mexico.
- Shimkin, Dimitri B. 1940. Shoshone-Comanche Origins and Migrations. *Proceedings of the 6th Pacific Science Congress* 4:17–25. Berkeley, California.
- Simmons, Marc. 1991. *The Last Conquistador: Juan de Oñate and the Settling of the Far Southwest*. University of Oklahoma Press, Norman.
- Sonnichsen, Charles L. 1973. *The Mescalero Apaches*. 2nd ed. University of Oklahoma Press, Norman.
- Tracy, Francis G. 1982. Eddy County, New Mexico (1889). In *Eddy County New Mexico to 1981*, edited by Southeastern New Mexico Historical Society, pp. 64–66. Craftsman Printers, Inc., Lubbock, Texas.
- Twitchell, Ralph Emerson. 1911. *The Leading Facts of New Mexican History*. Vol. 1. The Torch Press, Cedar Rapids, Iowa.
- Uhler, John William. 1995. Carlsbad Caverns National Park Information Page. Formerly available at: <http://www.carlsbad.caverns.national-park.com/info.htm>. Last accessed July 2016.
- U.S. Geological Survey. 2001. New Mexico Resource Geographic Information System Program (USGS_Geology/nmmapdd83.shp). Available at: http://rgis.unm.edu/data_entry.cfm. Accessed December 2024.
- Western Regional Climate Center. 2024. New Mexico Climate Summaries. Climate Summary for Carlsbad, New Mexico (COOP Station ID No. 291469). Available at: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm9569>. Accessed December 2024.
- Whisenhunt, Donald W. 1979. *New Mexico Courthouses*. Southwestern Studies Monograph No. 57. University of Texas, El Paso.

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

Winship, George Parker (editor and translator). 1904. *The Journey of Coronado, 1540-1542, from the City of Mexico to the Grand Canyon of the Colorado and the Buffalo Plains of Texas, Kansas, and Nebraska, As Told by Himself and His Followers*. Barnes and Company, New York, New York.

Wiseman, Regge N. 2003a. Punto de los Muertos (LA 116471): A Possible Late Archaic Cemetery in the Northern Trans-Pecos of Southeastern New Mexico. *Journal of Big Bend Studies* 15:1–26. Center for Big Bend Studies, Sul Ross State University, Alpine, Texas.

———. 2003b. *The Roswell South Project: Excavations in the Sacramento Plain and the Northern Chihuahuan Desert of Southeastern New Mexico*. Archaeology Notes 237. Museum of New Mexico, Office of Archaeological Studies, Santa Fe.

*Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001
Additional Boring Project in Eddy County, New Mexico*

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APPENDIX A

Cultural Resources Locational Information

This appendix provides the locations of cultural properties and is marked as confidential. Locational information is confidential and for official use only—public disclosure of archaeological site locations is prohibited by 16 United States Code 470hh and 36 Code of Federal Regulations 296.18.

Locational Data Have Been Redacted for Confidentiality

Cultural Resources Site-Specific Visit of LA 194744 and the Monitoring of Drilling Activities for the Yates Federal #001 Additional Boring Project in Eddy County, New Mexico

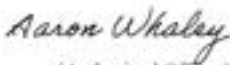
Form 0151-B United States Department of the Interior Bureau of Land Management FIELDWORK AUTHORIZATION REQUEST To Conduct Specific Cultural Resource Work under the Authority of a Cultural Resource Use Permit Issued by the Bureau of Land Management Pursuant to Sec. 302 (b) of P. L. 94-579, October 21, 1976, 43 USC 1732 Sec. 4 of P. L. 96-95, October 31, 1979, 16 USC, 470cc		INFORMATION REQUIREMENT APPROVED OMB NO. 1024-0037 For BLM Use Only
1. Permit Number and Date Issued 110-2920-23-III	2. Name of Permittee Courtney Blair	
3. Mailing Address and Telephone Number Address: SWCA Environmental Consultants 7770 Jefferson St. NE, Unit 410 Albuquerque, New Mexico 87109 Telephone [(xxx) xxx-xxxx]: (505) 254-1115		
4. Nature of Cultural Resources Work Proposed (if Consultation Work, Identify Client and Project) Cultural Investigation of WPA's Yates Federal #001 Project in Eddy County. Update LA 194774 and monitor boring activities. Site update can be put with the monitoring report unless the sites boundary changes and moves into the testing/treatment zone.		
5. Location of Proposed Work (Include Map) a. Description of Public Lands Involved SE New Mexico, BLM CFO in Eddy County, NM	b. Identification of Cultural Resource(s) Involved (if applicable) No previously recorded cultural resources are located within Proposed project and survey area is covered 100 percent by qualifying survey (surveys within 10 years and non-seismic). This is to delt and record LA 194774 around 9/11. Also	
6. Period During Which Work Will Be Conducted From [mm/dd/yy]: 9/11/24	To [mm/dd/yy]: 10/17/24	
7. Name of Individual(s) Responsible for Planning and Supervising Fieldwork and Approving Report, Evaluations, and Recommendations Courtney Blair- Project Manager Josh Huck- Field Lead Teresa Hurt-PI		
8. Signature Courtney Blair	9. Date [mm/dd/yy]: 9/9/24	
10. Approved  (Authorized Officer)	11. Date [mm/dd/yy]: 9/10/24	
Submit one copy of each request, by mail, FAX, or in person to the Field Office Manager in the BLM Field Office with administrative jurisdiction over the public lands involved.		

Figure A.5. Signed BLM field authorization form.

APPENDIX C

Biological Survey Report



209 W McKay St
Carlsbad, New Mexico 88220
Tel. 432.701.2159
www.ntgenvironmental.com

August 26, 2024

Carlsbad Botanist
Bureau of Land Management
620 E Greene Street
Carlsbad, New Mexico 88220

Re: Survey Report
Yates Federal #001
Devon Energy Production Company
Site Location: Unit H, S34, T26S, R29E
32.00104, -103.96717
Eddy County, New Mexico
Species: Scheer's Beehive Cactus

Botany Department:

On behalf of Devon Energy Production Company (Devon) Attn: Jim Raley (jim.ralej@dn.com), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document survey activities for Scheer's Beehive Cactus (*Coryphantha robustispina* var. *scheeri*) at the Yates Federal #001 (Site) for submittal to Bureau of Land Management Carlsbad Field Office (CFO) Botany Department. The Site is located in Unit Letter H, Section 34, of Township 26 South and Range 29 East in Eddy County, New Mexico. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

Survey

Field survey efforts (presence/absence survey) for Scheer's Beehive Cactus and took place on August 22, 2024, by CFO special status plant species (SSPS) certified NTGE botanist Jillian Smiley and NTGE scientist Clayton Tumas. The SSPS survey was triggered by pending remedial action activities at the Site. The proposed area of disturbance is 22,785 square meters. A 200 meter required buffer area for major industrial/commercial developed sites (i.e., mineral pits, ponds, flares, CTB, and well pads) was placed around the proposed area of disturbance. Due to existing industrial developed sites (wellpads, SWD, facilities), 59,449 square meters were excluded from the survey. The total area surveyed consisted of 278,648 square meters. Transects were spaced 20 meters apart as per protocol for SSPS potential/suitable habitat. The BLM data schema was used to confirm that there were no known occurrences within the survey area. SSPS Potential habitat can be seen in Figure 3, Survey extent and planned transect lines can be seen in Figure 4. Actualized survey tracks can be seen in Figure 5. Habitat images are attached at the end of the report.

Survey Results

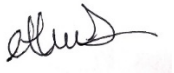
The survey resulted in a negative presence (absence) of Scheer's Beehive Cactus. No similar species (i.e., *Coryphantha robustispina* ssp.) were located within the survey area as well. Disturbance factors such as industrial development, lease roadways, polylines, electrical lines, and livestock grazing were evident throughout the survey space. Much of the Site lacked calcareous, loamy soils or slightly-sloping

Botany Department
August 26, 2024
Page 2 of 2

to nearly level gravelly or silty soils on or surrounding limestone or gypsum benches favored by Scheer's Beehive Cactus. The 3 major ecological sites are found within the area include Stony and Rough broken land, Upton-Simona complex 1 to 15 percent slopes eroded, and Chamberino-Delnorte association rolling. According to a database provided by USDA NRCS and NMSU, and Site can be classified as a state 3 shrub community according to a state and transition model. Much of the Site was dominated by *Prosopis glandulosa* (Honey Mesquite) and *Larrea tridentata* (Creosote bush). Ecological site information can be seen in Figure 6.

If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager



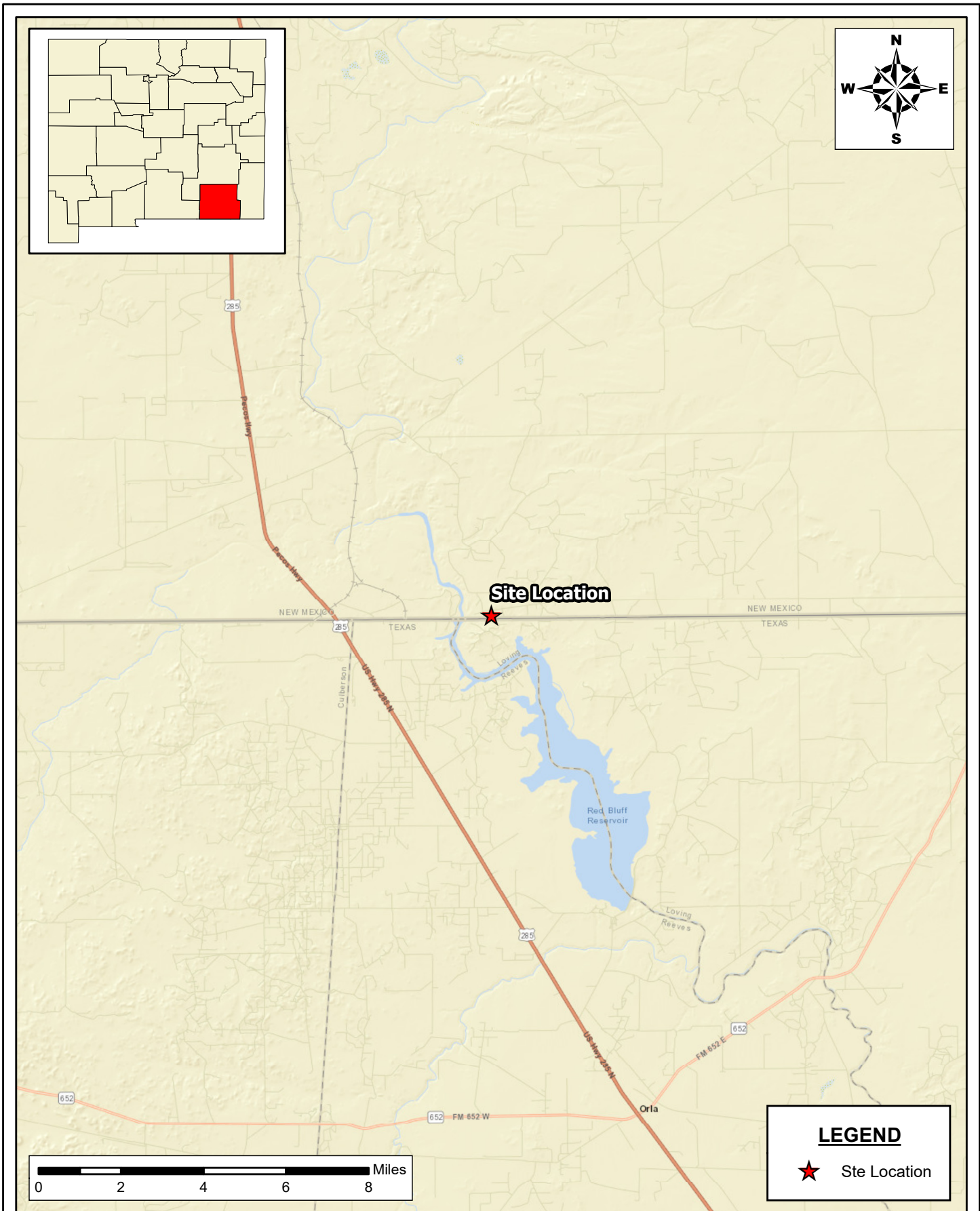
Jillian Smiley
Staff Scientist - Botanist

Attachments:

Figures
Photolog

FIGURES

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - New Mexico\Botany\249064 - Yates Sundry\GIS\Figure_1_SL.mxd



**SITE LOCATION MAP
SURVEY REPORT**
YATES FEDERAL #001
DEVON ENERGY PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 8/26/2024 PROJECT #: 249064

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenviroinmental.com



NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

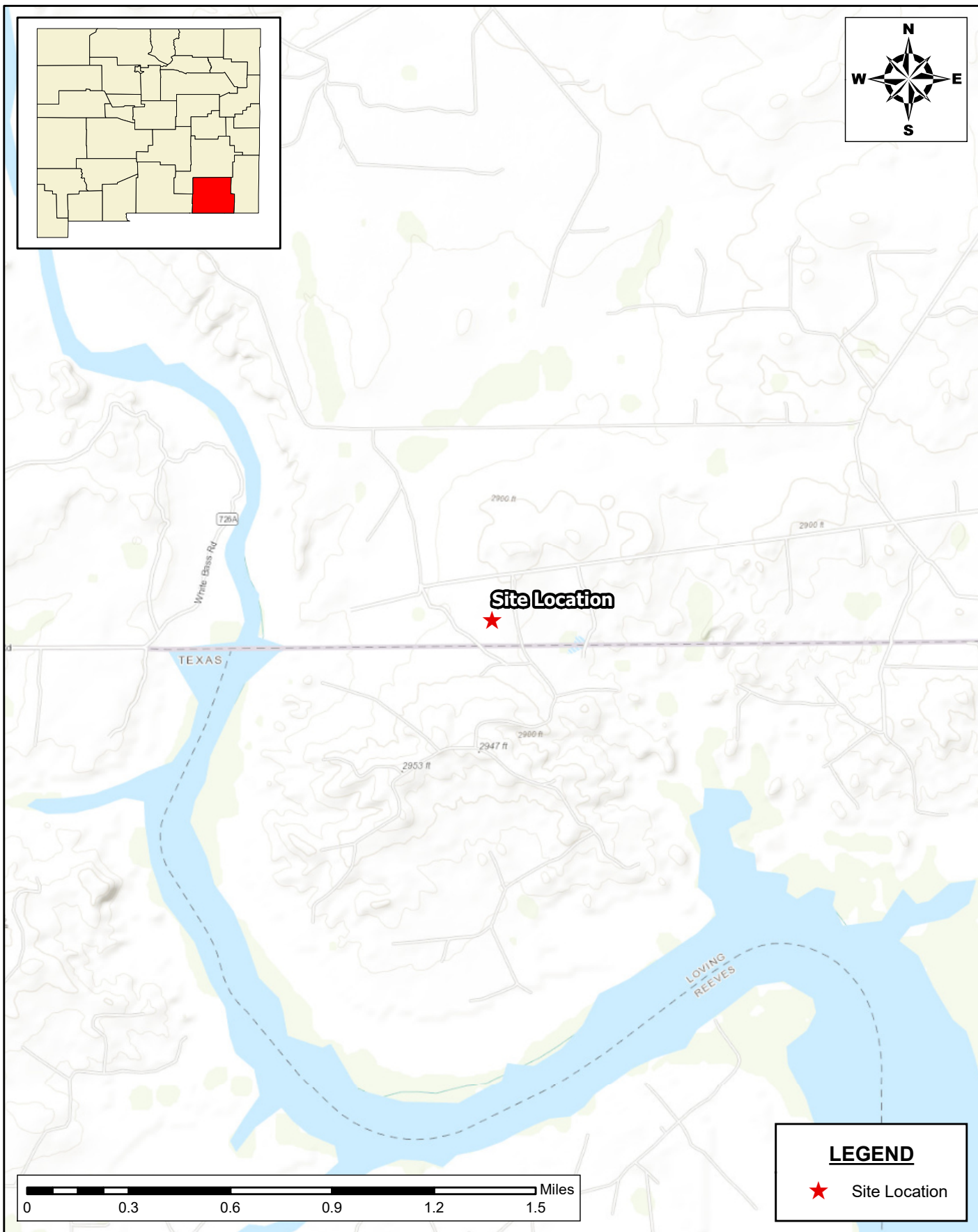
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FIGURE 1

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1 of 1

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**SITE LOCATION MAP
SURVEY REPORT**
YATES FEDERAL #001
DEVON ENERGY PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 8/22/2024 PROJECT #: 249064



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- 2. Map Projection: NAD 1983

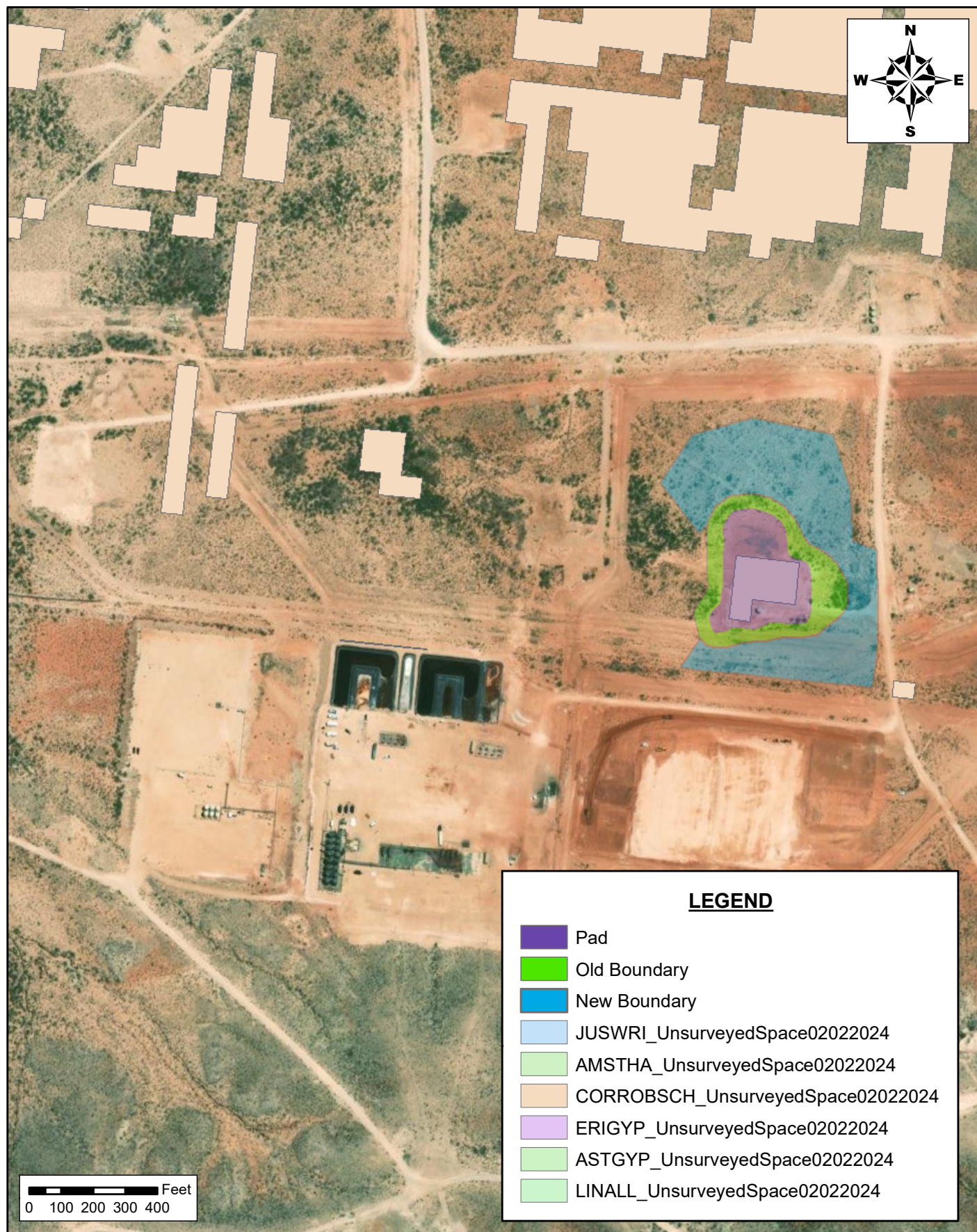
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FIGURE 2

SHEET NUMBER:

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**SSPS POTENTIAL MAP
SURVEY REPORT**
YATES FEDERAL #001
DEVON ENERGY PRODUCTION CORPORATION
EDDY COUNTY, NEW MEXICO

SCALE: AS SHOWN DATE: 08/19/2024 PROJECT #: 249064



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- 2. Map Projection: NAD 1983

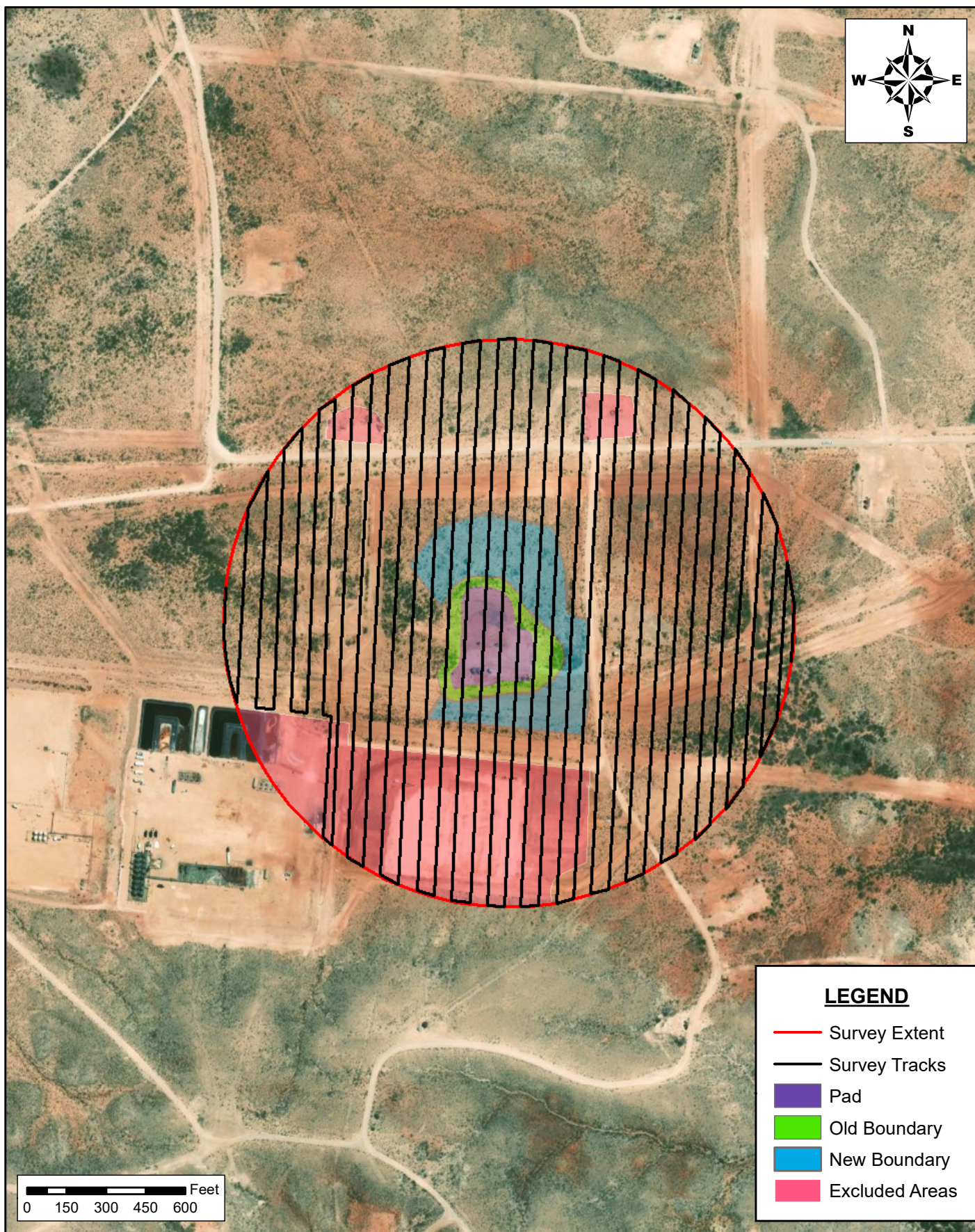
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FIGURE 3

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**SURVEY AREA MAP
SURVEY REPORT**
YATES FEDERAL #001
DEVON ENERGY PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
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NOTES:

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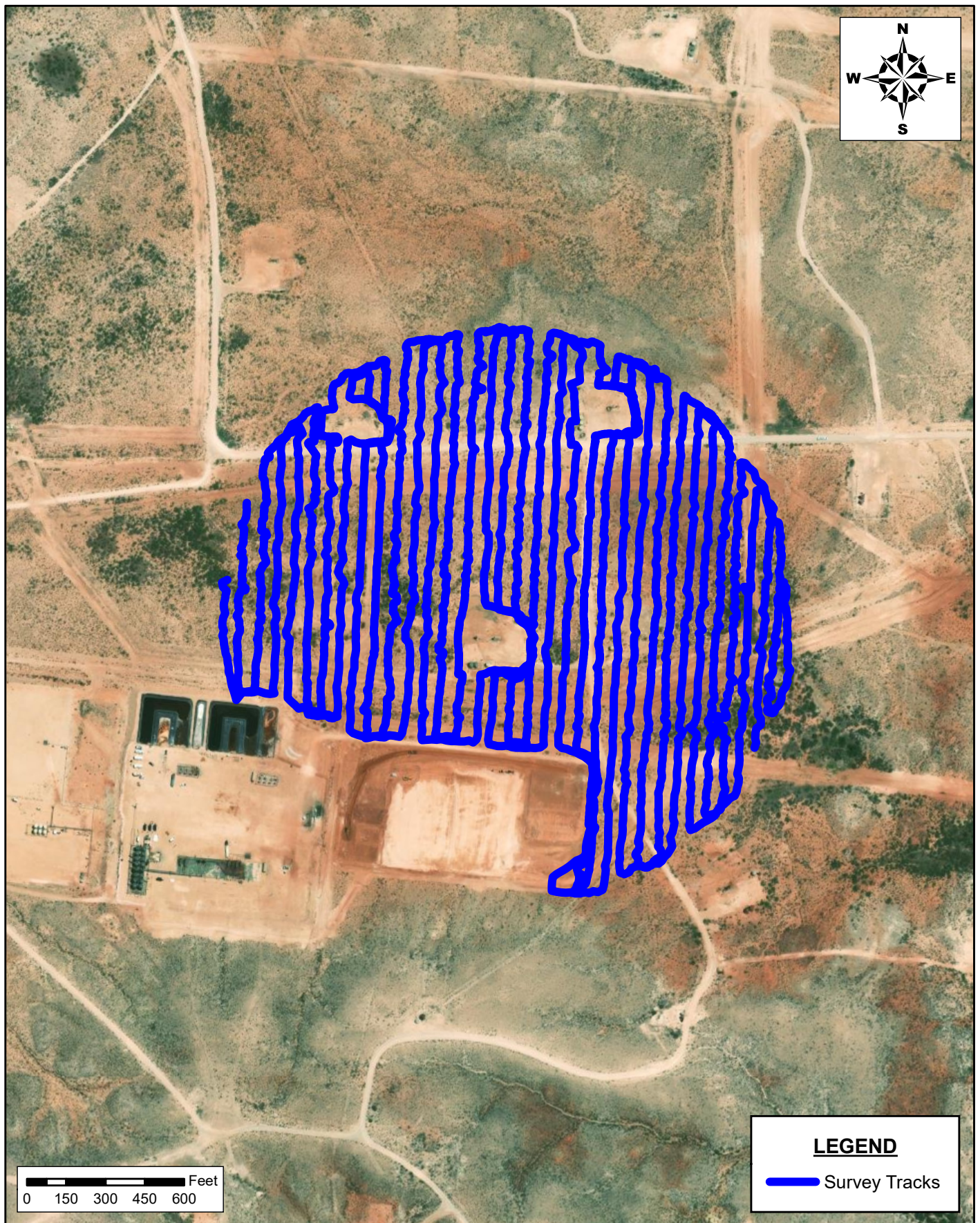
FIGURE 4

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1 of 1

SCALE: AS SHOWN DATE: 08/23/2024 PROJECT #: 249064

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**SURVEY TRACKS MAP
SURVEY REPORT**
YATES FEDERAL #001
DEVON ENERGY PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenviroinmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

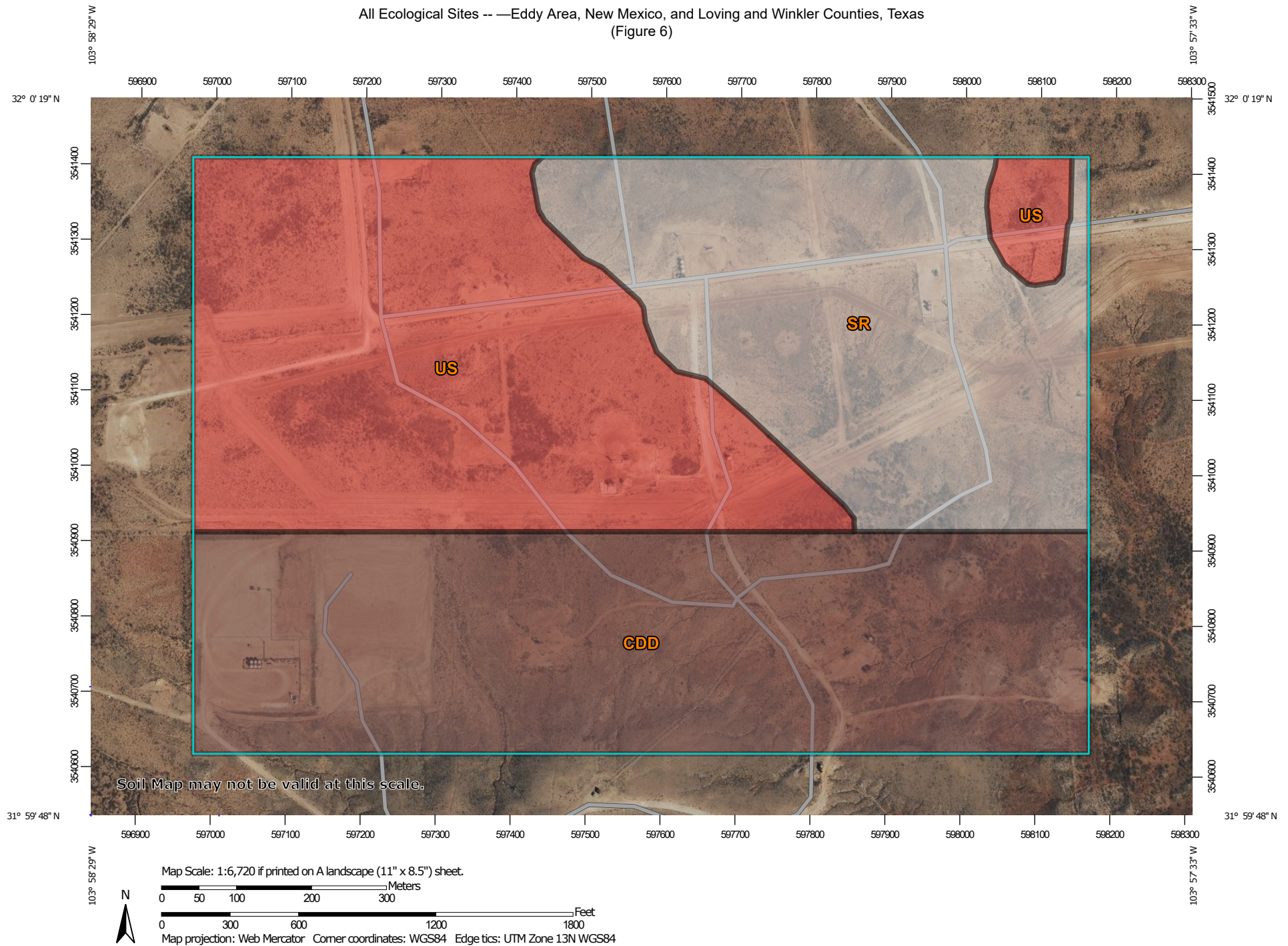
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FIGURE 5

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1 of 1

SCALE: AS SHOWN DATE: 08/23/2024 PROJECT #: 249064

All Ecological Sites -- Eddy Area, New Mexico, and Loving and Winkler Counties, Texas
(Figure 6)

Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

8/23/2024
Page 1 of 4

All Ecological Sites -- —Eddy Area, New Mexico, and Loving and Winkler Counties, Texas
(Figure 6)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 R042AC244TX
 R070BC025NM
 Not rated or not available

Soil Rating Lines

 R042AC244TX
 R070BC025NM
 Not rated or not available

Soil Rating Points

 R042AC244TX
 R070BC025NM
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at scales ranging from 1:20,000 to 1:31,700.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
 Survey Area Data: Version 19, Sep 7, 2023

Soil Survey Area: Loving and Winkler Counties, Texas
 Survey Area Data: Version 21, Sep 5, 2023

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 2, 2021—Mar 6, 2021

All Ecological Sites -- —Eddy Area, New Mexico, and Loving and Winkler Counties, Texas
(Figure 6)

MAP LEGEND

MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

All Ecological Sites -- —Eddy Area, New Mexico, and Loving and Winkler Counties, Texas

Figure 6

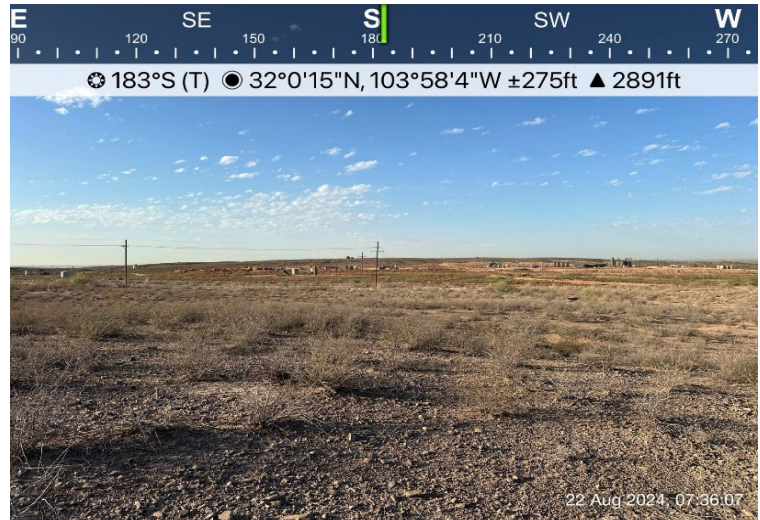
All Ecological Sites —

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
SR	Stony and Rough broken land	Stony and rough broken land (100%)		63.9	27.2%
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	Upton (40%)	R070BC025NM — Shallow	83.5	35.6%
		Simona (35%)	R070BD002NM — Shallow Sandy		
		Rock outcrop (9%)			
		Dune land (8%)			
		Pajarito (8%)	R070BD003NM — Loamy Sand		
Subtotals for Soil Survey Area				147.4	62.8%
Totals for Area of Interest				234.7	100.0%

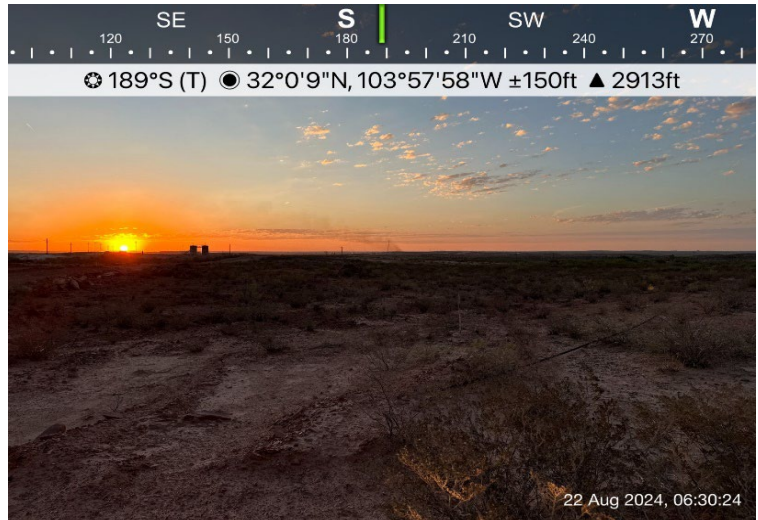
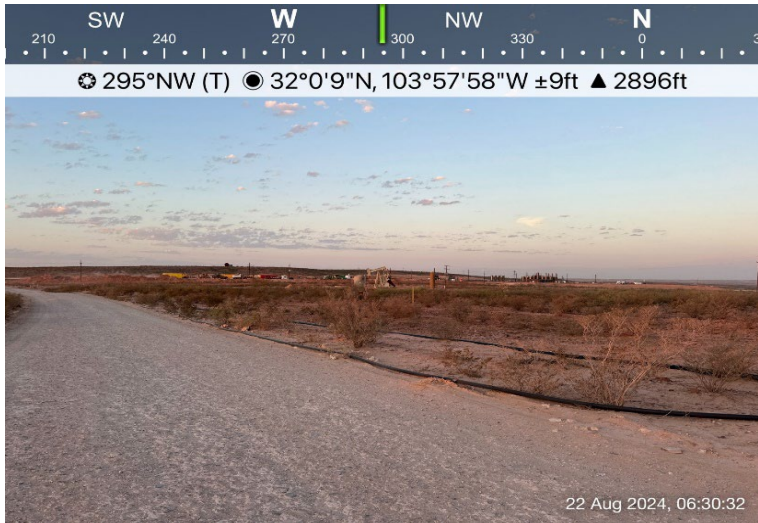
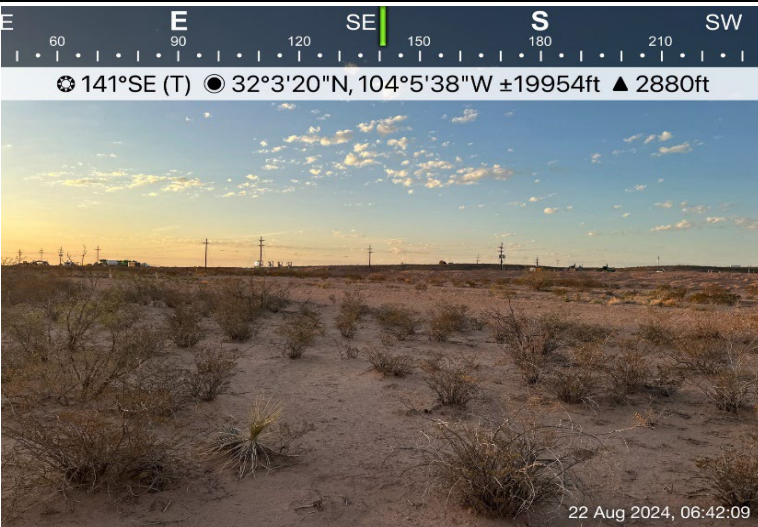
Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
CDD	Chamberino-Delnorte association, rolling	Chamberino (50%)	R042AC244TX — Gravelly, Desert Grassland	87.4	37.2%
		Delnorte (40%)	R042AC244TX — Gravelly, Desert Grassland		
		Unnamed (10%)			
Subtotals for Soil Survey Area				87.4	37.2%
Totals for Area of Interest				234.7	100.0%

PHOTOGRAPHIC LOG

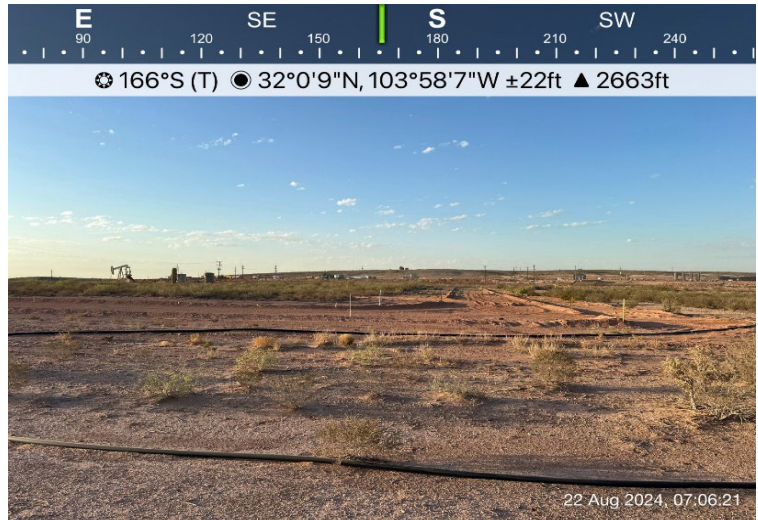
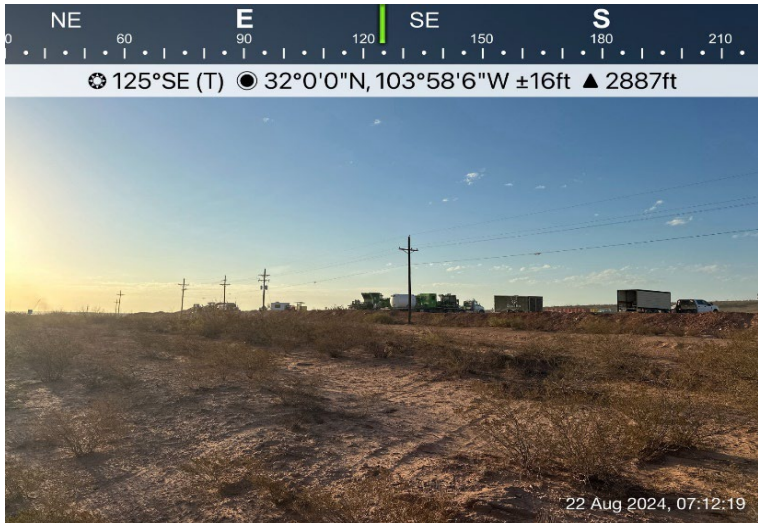
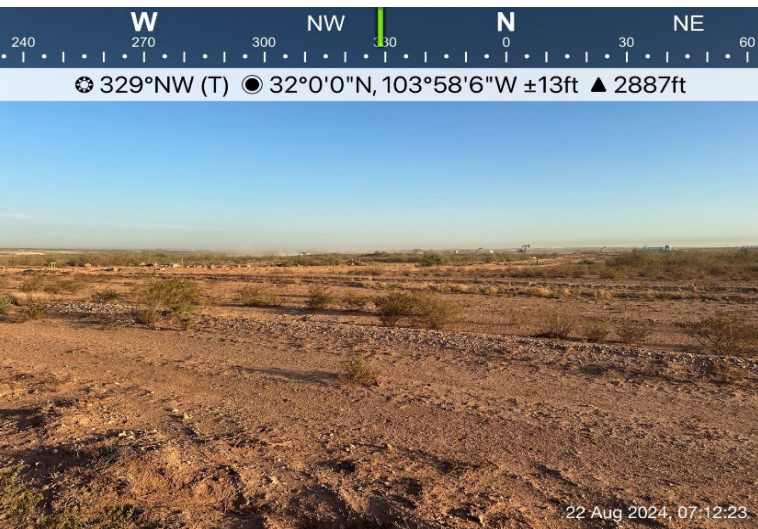
PHOTOGRAPHIC LOG
Devon Energy Production Company
Yates Federal #001

Photograph No. 1**Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 2****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 3****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern

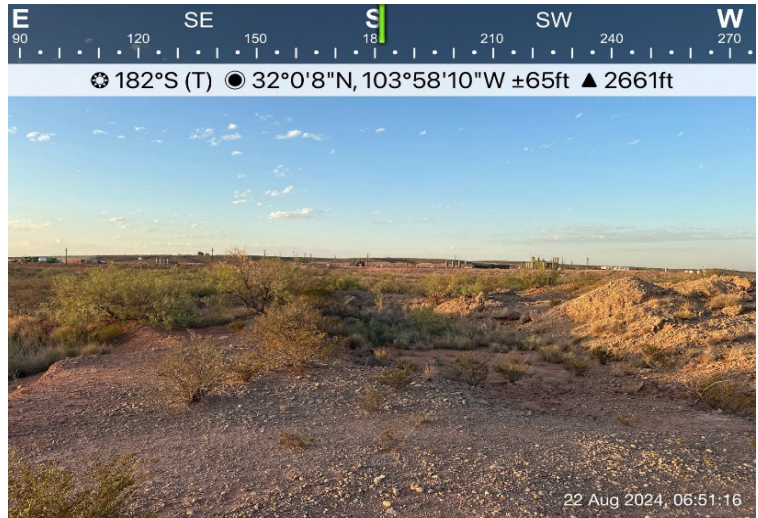
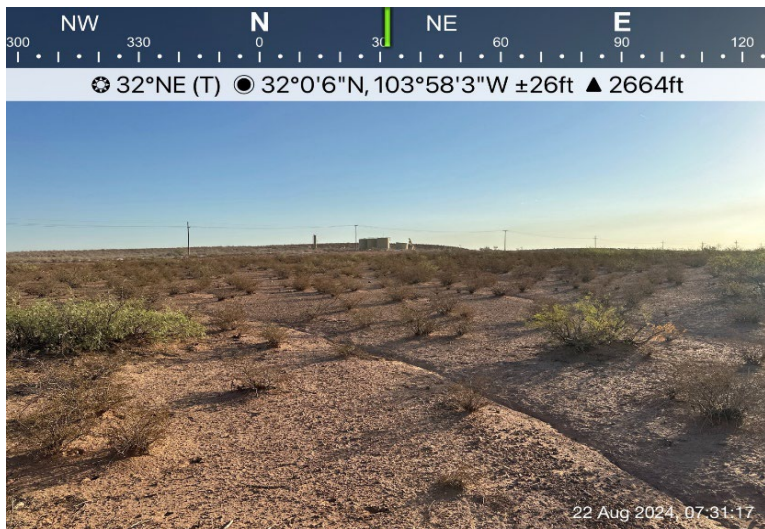
PHOTOGRAPHIC LOG
Devon Energy Production Company
Yates Federal #001

Photograph No. 4**Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 5****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 6****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern

PHOTOGRAPHIC LOG
Devon Energy Production Company
Yates Federal #001

Photograph No. 7**Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 8****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 9****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern

PHOTOGRAPHIC LOG
Devon Energy Production Company
Yates Federal #001

Photograph No. 10**Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 11****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern**Photograph No. 12****Facility:** Yates Federal #001**County:** Eddy County, New Mexico**Description:**
Area of Concern

APPENDIX D

Referenced Well Records

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





2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

3/3/2025

District II
New Mexico Office of State Engineer
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered on the date of this letter to the DII Office of the State Engineer

Re: Resubmitted *Well Records & Log* for temporary monitoring wells; C-04823 POD4,

To whom it may concern:

Enclosed please find in duplicate, *Well Records & Log* for C-04823 POD4.
The water level has been corrected from the original filing.

If you, have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: As noted above.

DSE DII REG FILE 114
MAR 25 2025



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 4 (BH-4)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04823			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr.				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 00	SECONDS 2.71	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	58	1.41	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW L12 Sec 34. T26S, R 29E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 06/18/2024	DRILLING ENDED 06/18/2024	DEPTH OF COMPLETED WELL (FT) Soil Boring		BORE HOLE DEPTH (FT) ±60	DEPTH WATER FIRST ENCOUNTERED (FT) unknown		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 51.9	DATE STATIC MEASURED 6/24/2024		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 60		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

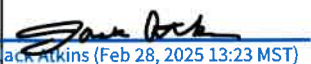
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	9	9	SAND, dry, light brown, poorly graded with silt, very fine to fine grain,	Y ✓ N	
	9	35	26	SILT, dry, reddish brown, poorly graded with gypsum vein crystalline, Dry	Y ✓ N	
	35	60	25	SILT, dry, reddish brown, poorly graded, trace clay, wet	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Soil boring plugged using Type I/II Neat Cement from total depth to surface Logs adapted from eTech on-site personal	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins (Feb 28, 2025 13:23 MST)	02/28/2025
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	

WR-20 Well Record and Log- 4-forsign

Final Audit Report

2025-02-28

Created:	2025-02-28
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHrH8H49ffhyGWGARaUMtkn70dcn34qlQ

"WR-20 Well Record and Log- 4-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2025-02-28 - 8:09:03 PM GMT
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2025-02-28 - 8:11:39 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2025-02-28 - 8:23:00 PM GMT
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2025-02-28 - 8:23:57 PM GMT - Time Source: server
-  Agreement completed.
2025-02-28 - 8:23:57 PM GMT

JOSE DII ROSWELL NM
4 MAR '25 4:42

STATE OF TEXAS WELL REPORT for Tracking #356414

Owner: BHP BILLITON PETROLEUM	Owner Well #: JOHNSON#4-2
Address: 115 W 3RD ST, STE 208 PECOS, TX 79772	Grid #: 46-01-1
Well Location: 13.5 mi N of ORLA, 3.3 mi E of HWY 285, & .1 mi S of N MEX line ORLA, TX 79770	Latitude: 31° 59' 54" N
	Longitude: 103° 58' 25" W
Well County: Loving	Elevation: 2866 ft. above sea level
Type of Work: New Well	
Proposed Use: Rig Supply	

Drilling Start Date: **3/4/2014**Drilling End Date: **3/5/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	303

Drilling Method: **Air Hammer**Borehole Completion: **Filter Packed; CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	20	303	Gravel	1/4"

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	5 CEMENT

Seal Method: **HAND**Distance to Property Line (ft.): **5000+**Sealed By: **Driller**Distance to Septic Field or other
concentrated contamination (ft.): **N/A**Distance to Septic Tank (ft.): **No Data**Method of Verification: **OWNER INFO**Surface Completion: **Surface Sleeve Installed**Water Level: **58 ft. below land surface on 2014-03-05** Measurement Method: **Unknown**Packers: **No Data**Type of Pump: **No Data**Well Tests: **Jetted** Yield: **30+ GPM**

Water Quality:	Strata Depth (ft.)	Water Type
	70-100 & 268-280	SALTY

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **SKINNER'S DRILLING**
P.O. BOX 544
ALPINE, TX 79831

Driller Name: **WALTER SKINNER**License Number: **2838**Apprentice Name: **JOHN SKINNER**Apprentice Number: **58577**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	TOPSOIL
4	25	LIGHT BROWN CLAY
25	55	RED CLAY
55	115	CRYSTAL FORMATIONS
115	175	BROWN CLAY
175	185	CRYSTAL FORMATIONS
185	270	RED CLAY & SANDSTONE
270	303	CRYSTAL FORMATIONS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8 N STEEL 1.5A 8			
6 N PVC SCH 40 0 60			
6 N PVC SCH 40 SLOT. 60 100 .035			
6 N PVC SCH 40 100 263			
6 N PVC SCH 40 SLOT. 263 283 .035			
6 N PVC SCH 40 283 303			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

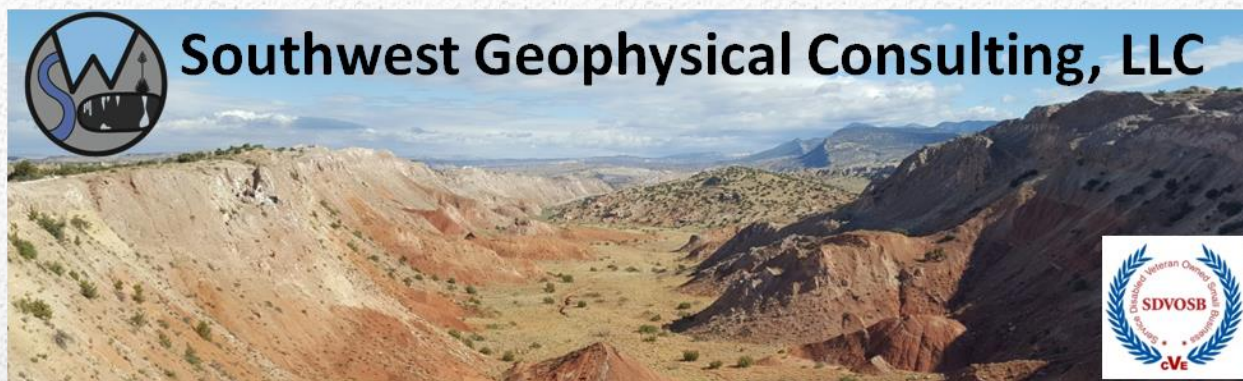
TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

APPENDIX E

Pedestrian Karst Survey Report



Environmental Karst Study Report WPX Yates Federal #001 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

December 30, 2024

ETEC-008-20241125

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Prepared for:

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joseph@etechenv.com

MMXXIV

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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 November 5, 2024, for the purpose of conducting an environmental karst study within an area encompassing the WPX Yates Federal #001 release site (hereinafter termed "WXYF") centered at N 32.000940° W 103.967207°.

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 and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[1,2]) within the spill boundary of the WPX Yates Federal #001 release using electrical resistivity imaging.

1.2 Summary of Findings

- **No surface karst features exist within the 200-foot (61-meter) zone surrounding the spill delineation boundary.**
- No anomalies consistent with air- or water-filled voids were found within the WXYF resistivity 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 WXYF 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^[3]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone^[4] (**Figure 1**).

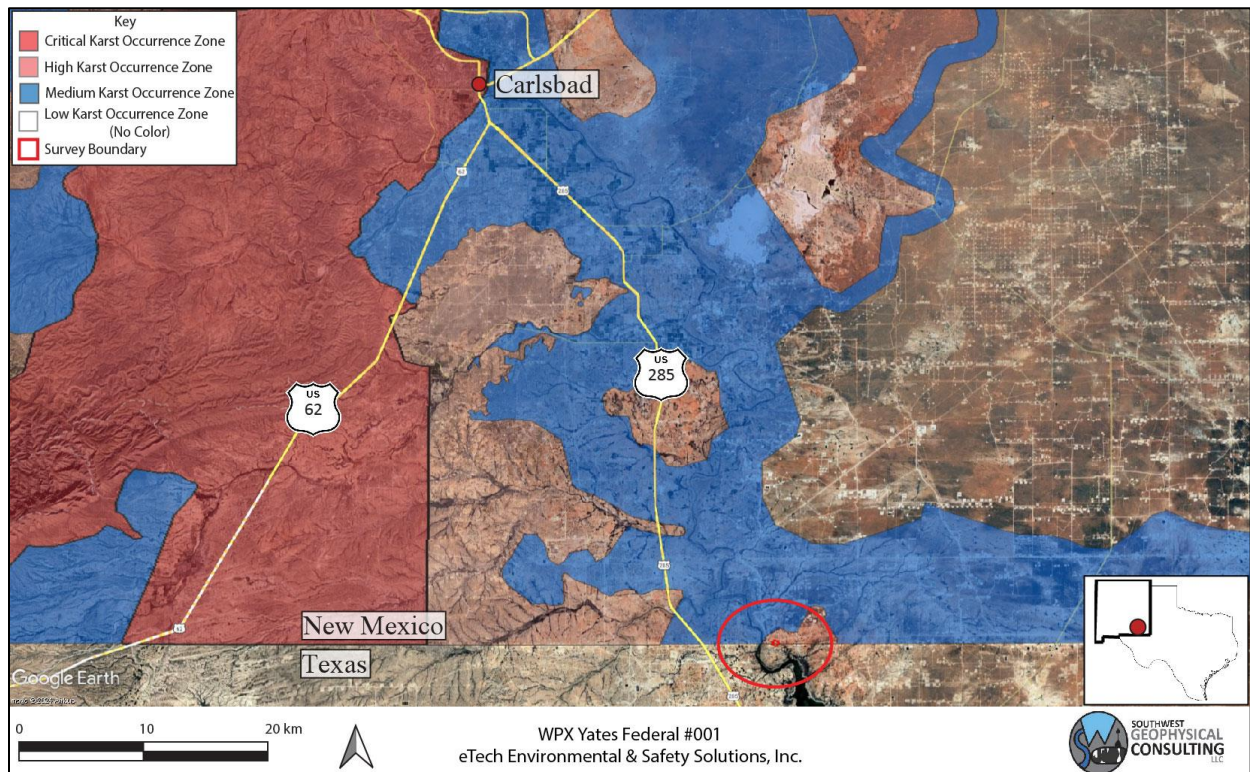


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: August 21, 2024. Image datum: WGS-84.

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^[3].

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.

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, 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 three years past the date of the field work provided in section **2.3.1 Surface Karst Inventory**. 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 52.5 kilometers (32.6 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 the Red Bluffs. The study area is located within section 34 of NM T26S R29E^[5] (**Figure 1** and **Figure 2**). The region has flat to rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[6] (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^[7]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[8] 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 a BLM-CFO designated HKOZ^[4] (**Figure 1**), and within BLM-CFO managed land^[9] (**Figure 2**).

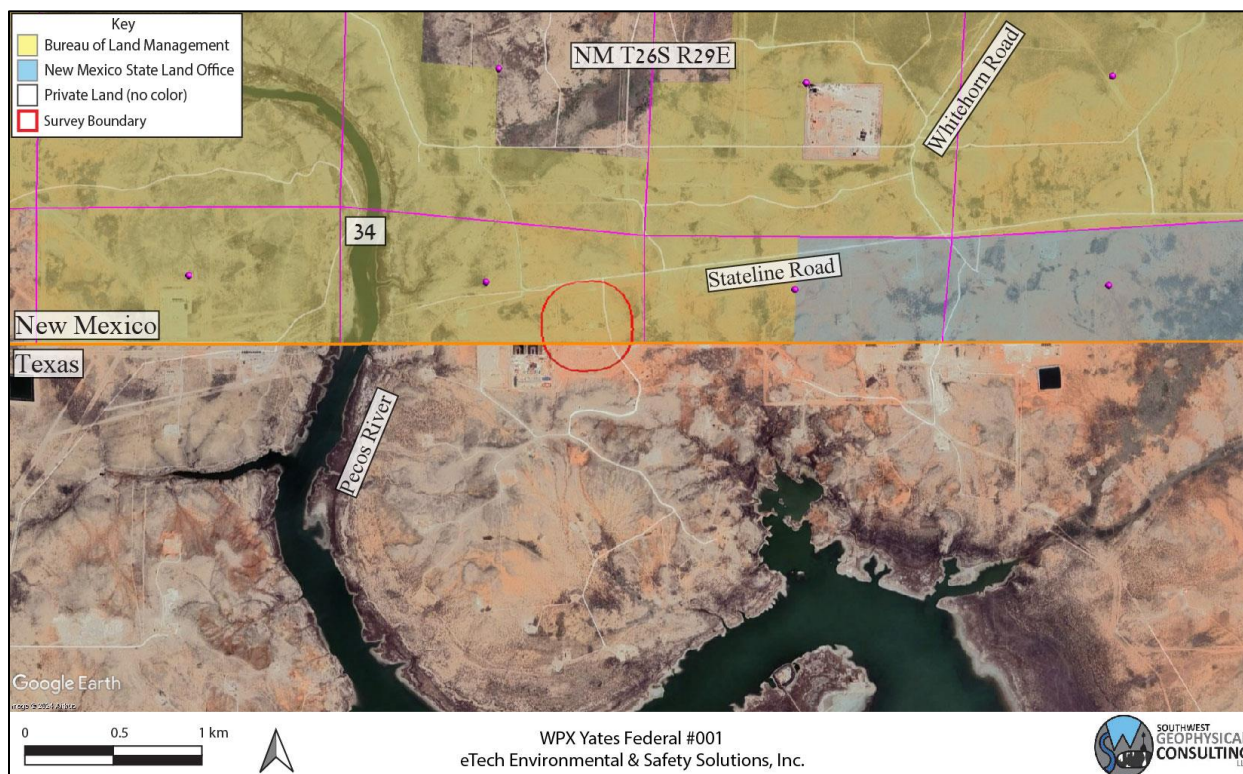


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the WXYF survey is located at an elevation of 879 meters (2,884 feet), ± 1 meter (3.3 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 eolian sands (Qe), and piedmont gravels (Qp)^[10] up to 5 meters in depth (**Figure 3**).

The Dewey Lake Formation is composed of calcite-cemented, hematite-stained quartz sand grains^[11] and occasional gypsum lenses and can, in favorable conditions, form cavernous porosity within 30 meters of the top of the Rustler^[12]. 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.



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.

The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum^[11], 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^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[10] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[14].

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 drones 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.

Aerial karst surveys are conducted at low elevation 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 4**). 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 a highly qualified 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^[15].

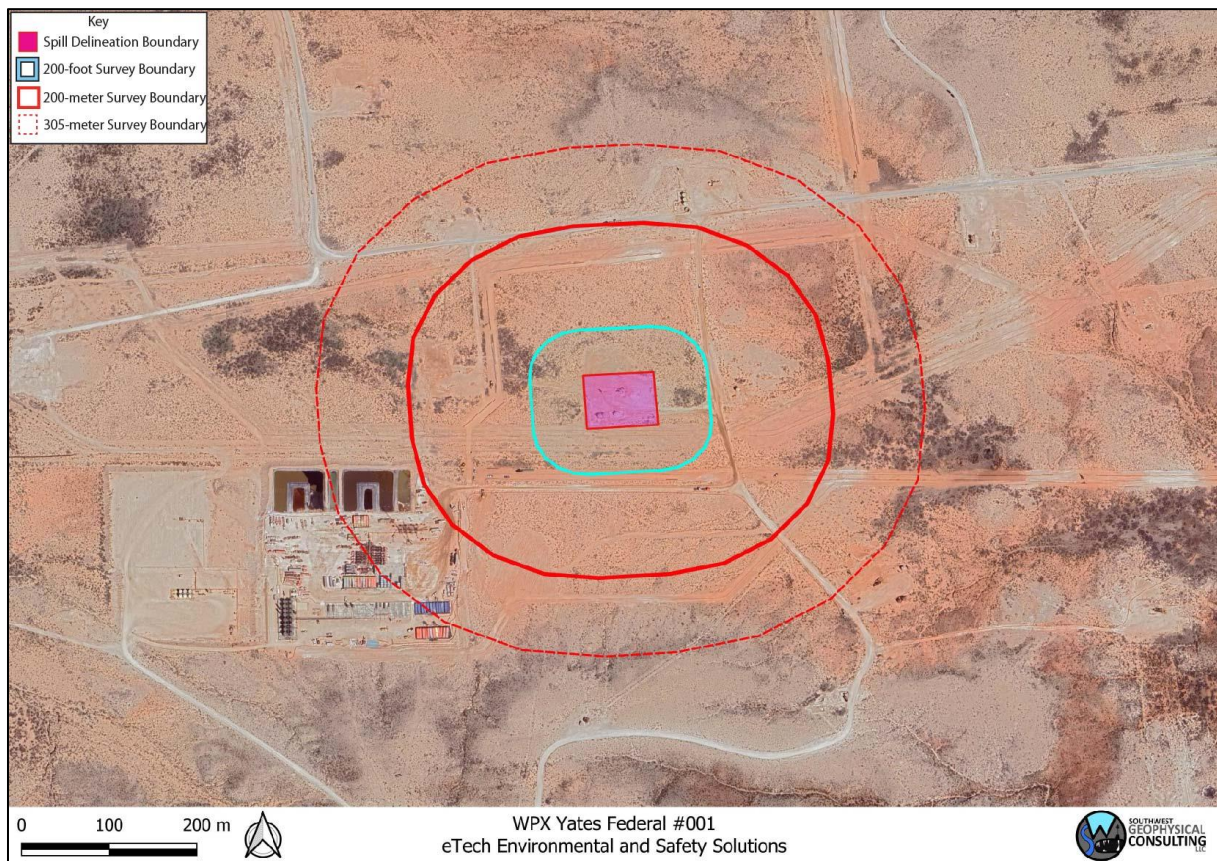


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: March 20, 2023. Datum: WGS-84.

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 December 4, 2024. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on December 18, 2024.

Prior to conducting the aerial karst survey, a surface karst desk study was performed by Southwest Geophysical Consulting within 305 meters (1,000 feet) of the spill delineation boundary. 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 November 22, 2024^[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 three previously recorded karst features within the 305-meter survey boundary. These features can be recognized in the table by the Feature IDs with dates earlier than those of this survey.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 56-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole configuration; WXYF01 is laid out southwest to northeast and WXYF02 is laid out northwest to southeast. Both lines consisted of 56 electrodes at 5-meter spacing, resulting in 275-meter-long arrays (**Figure 5, Table 2, and APPENDIX 8.2**). A preconfigured command file was used to run the data collection (DiDi56). This electrode configuration provided a depth of investigation of 55 meters (189 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.

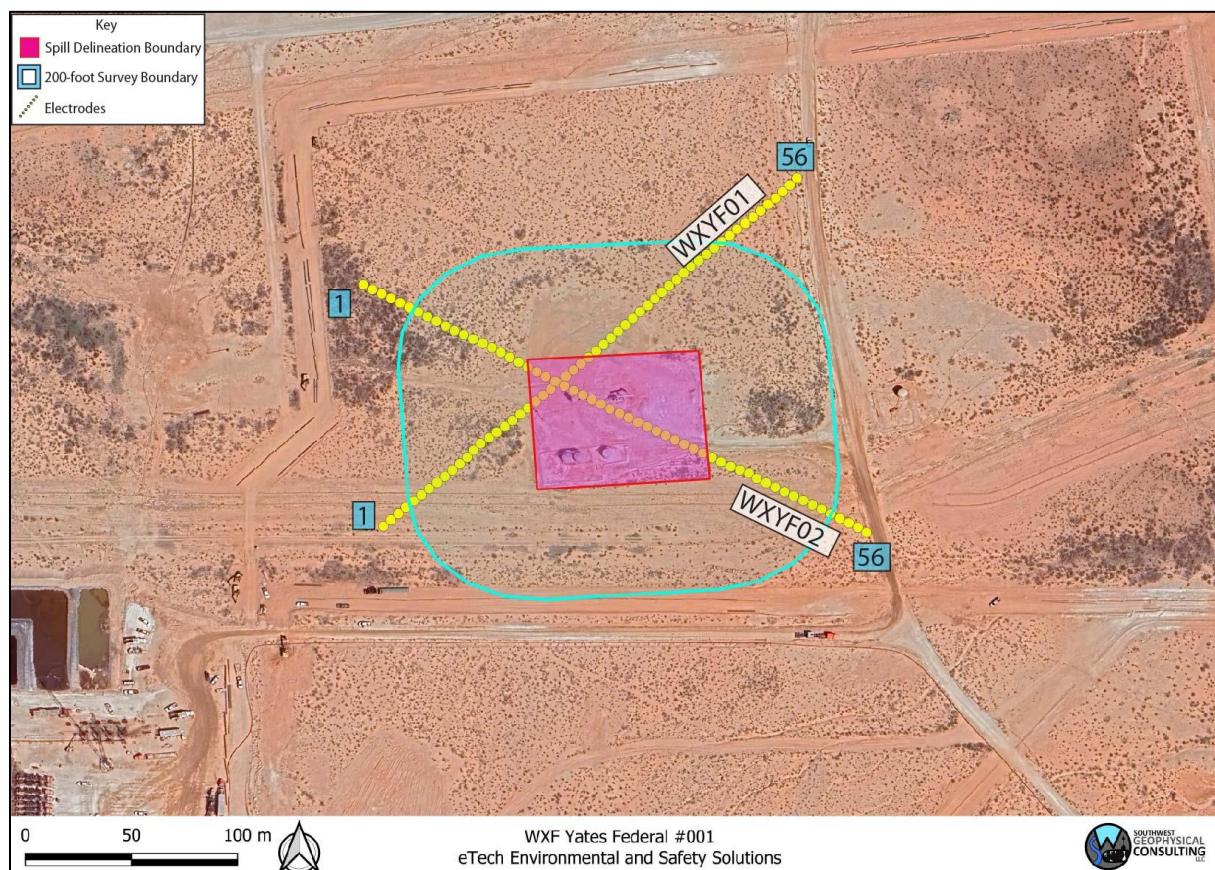


Figure 5: Geophysical survey overview. Two survey lines were conducted with 56 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

APPENDIX 8.2 provides a detailed list of each electrode number, location in latitude/longitude (decimal degree format), and elevation in meters (**Table 2**). 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 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 3**).

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on December 4, 2024.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no existing surface karst features within the 200-foot (61-meter)^[2] karst survey boundary. Three possible surface karst features exist within the 200-meter^[1] karst survey boundary, and an additional three possible surface karst features exist within the 305-meter karst survey boundary. No springs exist within the 1,000-foot (305-meter)^[1] survey boundary.

One high-likelihood surface karst feature is located within the 305-meter survey boundary (**Figure 6, Table 1**). High-likelihood surface karst features are features that are positively identified in either satellite or aerial imagery as karst features but have not been field checked.

Five medium-likelihood surface karst features are located within the 305-meter survey boundary; with three of these being inside the 200-meter aerial survey area (**Figure 6, Table 1**). Medium-likelihood surface karst features are ambiguous in aerial imagery and should be field-checked for verification if they impact remediation activities. The features identified in this report as medium likelihood are probably burrows or shadows, or erosional in nature; however, there is insufficient evidence to make this determination and therefore these features cannot be ruled out.

None of these features are within the 200-foot (61-meter) survey area surrounding the spill delineation boundary.

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 1 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).

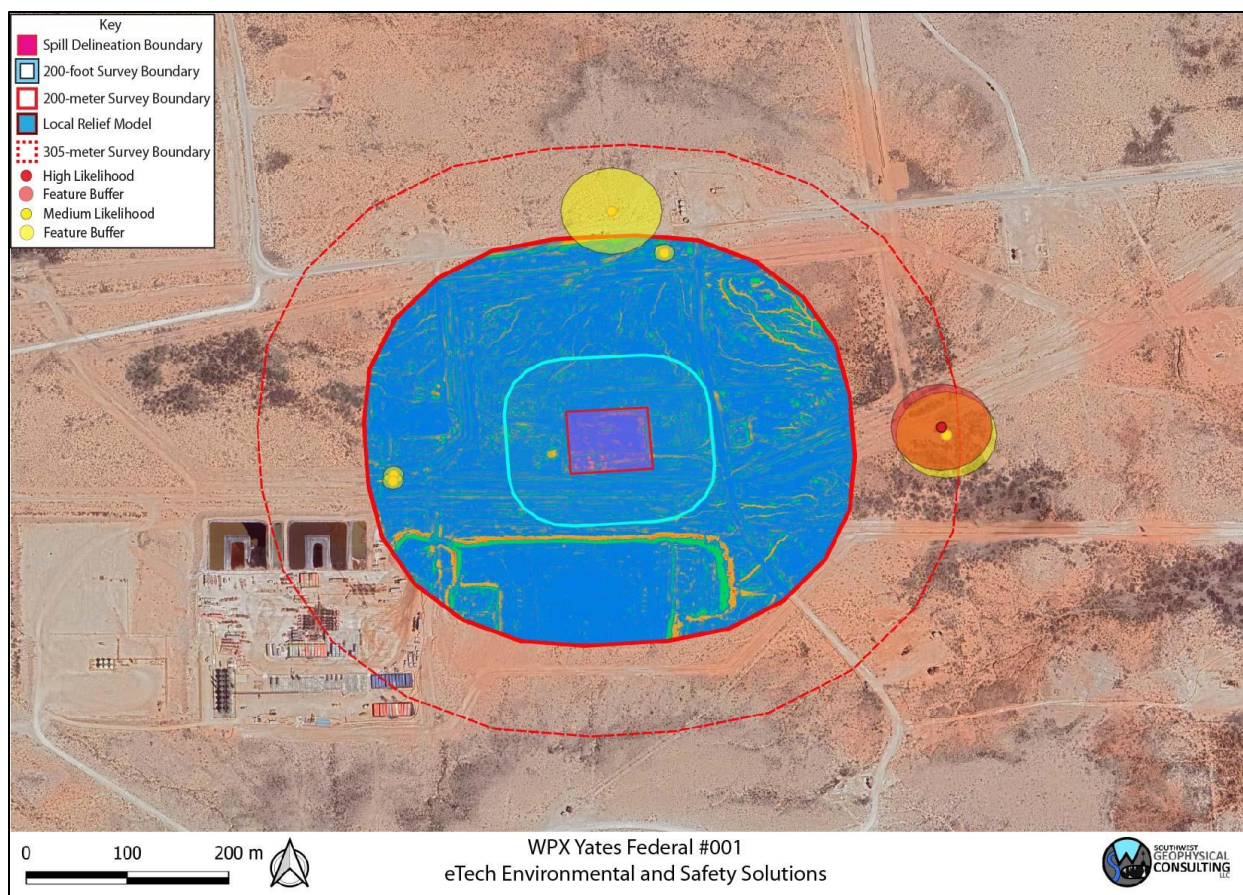


Figure 6: Aerial karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Table 1: Karst Feature Data Table

Karst Status	Feature ID	Type	Size (m)	Buffer (m)	Modifier	Easting	Northing
PKF	231211-E01	Suffosion sinkhole	1.5	10	M	597605.928	3541219.893
PKF	231211-E02	Cover-collapse sinkhole	1.5	50	H	597881.436	3541020.583
PKF	231211-E03	Solution tube	0.3	50	M	597886.321	3541011.460
PKF	241218-D03	Suffosion sinkhole	1.4	10	M	597341.037	3540960.192
PKF	241218-D04	Suffosion sinkhole	0.8	10	M	597340.467	3540953.239
PKF	241218-D05	Collapse feature	1.1	50	M	597553.295	3541267.790

NOTE: Location data provided in WGS-84/UTM 13N. PKF – possible 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 1.2 and 1,250 Ohm-m with occasional areas of up to 9,500 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.

One area of higher-than-average resistivity exists under line WXYF02. Areas of lower-than-average resistivity (1.2 to 25.0 Ohm-m) exist both at the surface and at depth within the survey area (**Figure 7**).

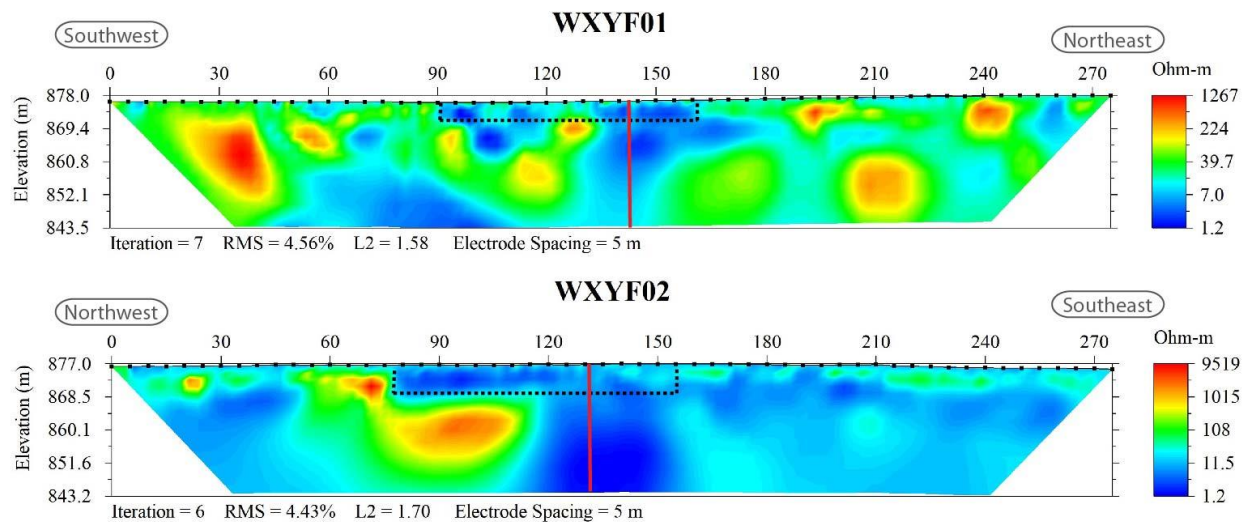


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium resistivity values. Blues are low resistivity values. Please note that the color scale is relative. The dashed black line indicates previous remediation. The vertical red line is the interpreted location of the wellbore(s).

4.0 DISCUSSION

No surface karst features and no anomalies consistent with large (greater than 2-meter diameter) air- or water-filled subsurface voids are found within the WXYF survey area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (1.5 – 2.0 meters) may be present. The higher-than-average resistivity area located underneath line WXYF02 is interpreted to be either a more resistant sandstone or dolomite layer, possibly an old river channel, or a lens of dry halite. Other slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as dry caliche or gypsite soils. Due to their low 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 dry gypsite soils and gypsum bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**).

Low-resistivity areas between 1.2 – 25 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 Rustler Formation. The large, vertical, low-resistivity area on line WXYF02 between electrodes 24 and 31 may represent the drill column of the pumpjack (**Figure 7**). Additionally, a rectangular feature located at the pad boundary (black dashed line in **Figure 7** and **Figure 8**) is consistent with previous reclamation activities.

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. They remain interpretations until verified by geotechnical methods.

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 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. Employing a BLM-CFO approved karst monitor on site during activities in this area should be considered.

No anomalies consistent with air- or water-filled voids were found within the WXYF resistivity survey area, indicating the zone beneath the geophysical survey is not subject to collapse.

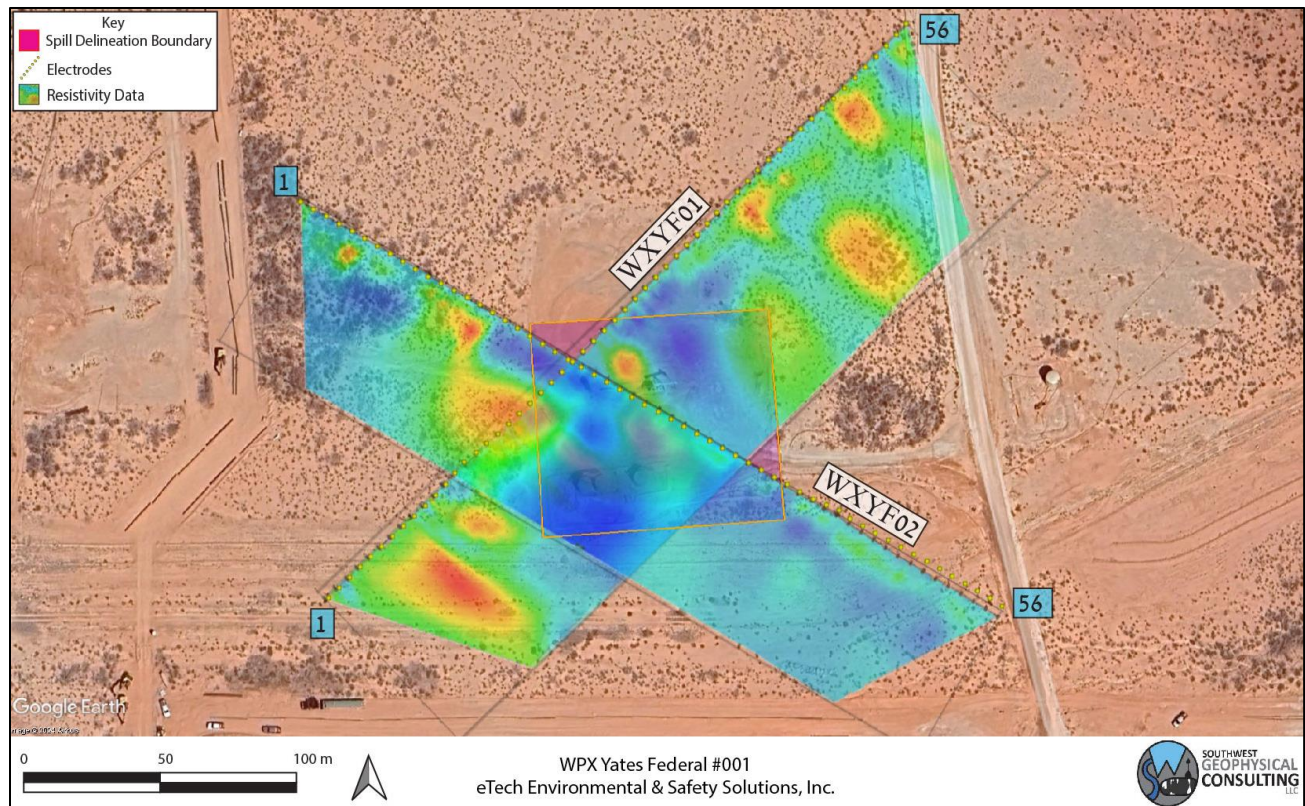


Figure 8: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: March 20, 2023.

5.0 SUMMARY

- **The WXYF survey contains no surface karst features within 200 feet (61 meters) of the spill delineation 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.**
- **The subsurface appears to be moderately well layered and can be considered stable ground.**
- 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.
- 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 warrants 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 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
- 2 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
- 3 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
- 4 Rybacki, K. (Bureau of Land Management - Carlsbad Field Office, 2020).
- 5 Earthpoint. *Earthpoint Tools for Google Earth*, <<https://www.earthpoint.us/Townships.aspx>> (2022).
- 6 Decker, D. D., Land, L. & Luke, B. Characterization of Playa Lakes in the Gypsum Karst of Southeastern New Mexico and West Texas, USA. *Oklahoma Geological Survey Circular 113* **113** (2021).
- 7 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)*, 2010).
- 8 Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. (Bureau of Land Management, Carlsbad Field Office, 2017).
- 9 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2024).
- 10 Scholle, P. A. *Geologic Map of New Mexico*. (2003).
- 11 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).
- 12 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).
- 13 Goodbar, J. R. & Goodbar, A. in *US Geological Survey Karst Interest Group* (National Cave and Karst Research Institute, Carlsbad, NM, 2014).
- 14 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <<https://mrdata.usgs.gov/geology/state/state.php?state=NM>> (1997).
- 15 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).
- 16 Decker, D. D. & Jorgensen, G. L. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2023).
- 17 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 APPENDICES

8.1 Glossary of Terms

ACEC	Area of Critical Environmental Concern
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
InSAR	Interferometric Synthetic Aperture Radar. A method by which radar signals from satellites are processed to determine the amount and rate of subsidence of an area as well as whether the area is actively subsiding.
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.
LED	Locally enclosed depression. A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
(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.
SKF	Surface Karst Feature
SPAR	Small Party Assisted Rescue
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 PKF. 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)

8.2 Electrode Data

Please see accompanying data files in **WXYF_ERI_Points.xlsx** and **WXYF_ERI_Points.kmz** within file **ETEC-008-20241105_WXYF_Data_Files.kmz** for detailed information on each electrode location.

Table 2: 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 WXYF_ERI_Points.xlsx and ETEC-008-20241105_WXYF_Data_Files.kmz.

File Name:	Completed By:	Date:
WXYF01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	12/4/2024
WXYF02.kmz		

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.

Table 3: 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

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-008-20241125 entitled, “Environmental Karst Study Report, WPX Yates Federal #001 Release, 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, January 13, 2025.



David D. Decker

PhD, CPG-12123



APPENDIX F

Soil Sampling Logs



Sample Name: BH01

Date: 02/26/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.000860, -103.967473

Hole Diameter: 3.75"

Total Depth: 35'

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	11,028	1.4	No	BH01	0.5	0.5	SP-SM	(0-35') SAND, dry, light brown, poorly graded with silt, very fine to fine grain, trace small subrounded gravel (1-10mm), trace organics, no stain, no odor.
Dry	3,452	0.7	No	BH01	4	4		@ 3' Color change to reddish brown, no organics.
								@ 9' Color change to dark reddish brown, trace grey reduction spots (1-2mm), trace crystalline gypsum grains (>1mm).
Dry	1,232	0.2	No	BH01	10	10		@ 14' increase in reduction spots and sizes (1-5mm), some clay.
Dry	1,416	0.3	No	BH01	15	15		@ 22' larger white crystalline gypsum inclusions, decreased consolidation, less reduction spots.
Dry	1,312	0.5	No	BH01	20	20		Note: @ 35' split spoon rejection due to consolidation. Cutting used for field screening/ description.
Dry	860	0.6	No	BH01	25	25		
Dry	356	0.5	No	BH01	30	30		
Dry	528	0.0	No	BH01	35	35		

Total depth



Sample Name: BH02 Date: 02/26/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.000899, -103.967139

Logged By: EK Method: HSA
 Hole Diameter: 3.75" Total Depth: 35'

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	1,232	0.0	No	BH02	0.5	0.5	SP-SM	(0-9') SAND, dry, tan - light brown, poorly graded with silt, very fine to fine grain, trace sm-lg subrounded gravel (1-10mm), trace clay, no stain, no odor.
Dry	356	0.7	No	BH02	4	4		@ 3' Color change to reddish brown, increased consolidation, decrease in silt.
Dry	320	0.1	No	BH02	10	10	SP-ST	(9-28') SANDSTONE, dry, red-reddish brown, poorly graded, moderate consolidation, trace clay reduction spots (1-5mm), no stain, no odor.
Dry	996	0.1	No	BH02	15	15		Note: @9' Split spoon sample collection decreasing due to consolidation.
Dry	1,140	0.1	No	BH02	20	20		Note: @20' Split spoon sample rejected, cutting used for field screening/ descriptions. Same for 25'.
Dry	796	0.2	No	BH02	25	25		@25' No reduction spots.
Dry	436	0.0	No	BH02	30	30	SP-SM	(28-35') SAND, dry, reddish brown, poorly graded with silt, very fine-fine, abundant sm-md grey reduction spots (1-4mm), some clay, no stain, no odor.
Dry	396	0.0	No	BH02	35	35		@34' Some white crystalline gypsum inclusion (1-3mm) decrease in reduction spots.
								Note: Cuttings used to backfill from surface to TD.

Total depth



Sample Name: BH03

Date: 02/26/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.001068, -103.967101

Hole Diameter: 3.75"

Total Depth: 35'

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	6,064	0.1	No	BH03	0.5	0.5	SP-SM	(0-18') SAND, dry, tan-light brown, poorly graded with silt, very fine to fine grain, abundant sm-lg subround gravel (1mm-2cm), no stain, no odor.
Dry	1,416	0.0	No	BH03	4	4		@ 3' Color change to dark reddish brown, increased consolidation, trace small grey reduction spots, trace white crystalline gypsum inclusions and grains.
Dry	1,744	0.1	No	BH03	10	10		@ 9' Decreased consolidation.
Dry	2,008	0.0	No	BH03	15	15		@ 14' Color change to tan-light brown with no reduction spots.
						18		@ 15' Color change to reddish brown with reduction spots.
Dry	2,008	0.1	No	BH03	20	20	SP-ST	(18-28') SANDSTONE, dry, dark reddish brown, fine, crystalline, moderately consolidated, no stain, no odor.
Dry	2,160	0.2	No	BH03	25	25		@ 20' Some white crystalline gypsum inclusions (2-10mm), decreased consolidation.
						28		@24' Color change to reddish brown, abundant small to medium grey reduction spot (1-3mm), small decrease in consolidation, trace clay.
Dry	860	0.1	No	BH03	30	30	SP-SM	(28-35) SAND, dry, reddish brown.
Dry	528	0.3	No	BH03	35	35		

Total depth

								Sample Name: BH04		Date: 02/26/2024, 02/27/2024, 06/11/2024, 06/18/2024					
								Site Name: Yates Federal #001							
								Incident Number: nAB1428734057, nRM2011138650							
								Job Number: 18154							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA					
Site Coordinates: 32.000754, -103.967059								Hole Diameter: 3.75"		Total Depth: 60'					
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	3,452	0.1	No	BH04	0.5	0.5	SP-SM	(0-9') SAND, dry, light brown, poorly graded with silt, very fine to fine grain, trace sm-md subround gravel (1-4mm), no stain, no odor. @3' Color change to reddish brown, light brown-pink mottling, abundant sm-md grey reduction spots (1-3mm), some white crystalline gypsum inclusions and grains. @8' Trace large yellow-grey sand inclusions (1-3cm). (9-57') SILSTONE, dry reddish brown, poorly graded with some clay, moderately consolidated with some very fine gypsum vein crystalline, trace of tan sanstone inclusion (1-2cm), no stain, no odor. @14' Color change to dark reddish brown, decrease of gypsum 'inclusion and reduction spots. @19' Color change to reddish brown, increase of silt trace of yellow pieces of sand inclusion (2-3cm) @30' Decrease of silt @39' Decrease in consolidation @40' 5 Gallons of H2O added to hole for drilling (tested at 198ppm) @44' Increase in silt, trace clay. (57-59') Clay, moist, reddish brown meduim plasticity, cohesive, no stain, no odor.							
Dry	1,628	0.2	No	BH04	4	4									
Dry	996	0.1	No	BH04	10	10	ML								
Dry	1,148	0.2	No	BH04	15	15									
Dry	924	0.0	No	BH04	20	20									
Dry	736	0.1	No	BH04	25	25									
Dry	680	0.0	No	BH04	30	30									
Dry	528	0.7	No	BH04	35	35									
Dry	752	0	No	BH04	45	45									



								Sample Name: BH04		Date: 02/26/2024, 02/27/2024, 06/11/2024, 06/18/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.000754, -103.967059								Hole Diameter: 3.75"		Total Depth: 60'	
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	528	0.0	No	BH04	50	50	SP-SM	@55' borehole covered and not backfilled after drilling activities. 06/11/2024; awaiting next schedule session to continue			
Dry	580	0.0	No	BH04	55	55	SC-ST	@ (55-60') continued drilling on 06/18/2024. No fluids observed throughout the drilling process.			
Moist	480	0.0	No	BH04	60	60	ML	@ (60') borehole covered and not backfilled after drilling activities on 06/18/2024 to allow potential groundwater to equilibrate. Heavy rainstorm affected the area on 06/20/2024 and 06/21/2024. 06/24/2024; Depth to groundwater measured by Atkins 11:00-11:15 @49.6' bgs. Depth to groundwater measured by Etech at 11:40 @50.5' bgs. -Water bailed from approximately 11:40 to 12:40 and depth to water remeasured @51.92' bgs. -Etech returned to the site to remeasure depth to water at 17:00 and measured 51.5' bgs. -Initial depth to water measurement may have been influenced by the recent rain event and the subsequent collection of rain water and storm water runoff from surrounding areas. The actual equilibrated depth to water appears to be greater than 50' bgs. 51.9' final depth to groundwater measurement.			
Total Depth											



Sample Name: BH05

Date: 02/27/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.000971, -103.966900

Hole Diameter: 3.75"

Total Depth: 35'

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	3,452	0.1	No	BH05	0.5	0.5	SP-SM	(0-1') SAND, dry, light brown, poorly graded with trace silt, very fine to fine, poorly consolidated, no stain, no odor. (1-10') SANDSTONE, dry, light reddish brown, poorly graded very fine to fine, well consolidated, no stain, no odor. (10-34') SILT, dry, reddish brown, poorly graded with abundant silt and some clay, moderately consolidated, very fine gypsum vein crystalline, trace of tan sandstone sandstone inclusion (1-2cm), no stain. no odor. (34-35') SAND, dry, reddish brown, poorly graded, very fine to fine, poorly consolidated, no stain, no odor.
Dry	1,628	0.2	No	BH05	4	5	SP-ST	
Dry	996	0.1	No	BH05	10	10	ML	
Dry	1,148	0.2	No	BH05	15	15		
Dry	924	0.0	No	BH05	20	20		
Dry	736	0.1	No	BH05	25	25		
Dry	680	0.0	No	BH05	30	30		
						34		
Dry	528	0.0	No	BH05	35	35	SP-SM	

Total Depth

								Sample Name: BH06		Date: 06/12/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.000544, -103.967683								Hole Diameter: 3.75"		Total Depth: 55'	
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	352	0.0	No	BH06	0.5	0.5	SP-SM	(0-10') SAND, dry, reddish brown, poorly graded with some silt, very fine to fine, abundant greyish reduction spot (0.5-1mm), no stain, no odor.			
					4	5		@6' Decrease of reduction spot from abundant to some (0.5-1mm)			
Dry	480	0.0	No	BH06	10	10	ML	(10-48') SILT, dry, reddish brown, poorly graded very fine to fine, moderately consolidated, some reduction spot (0.5-1mm), no stain, no odor.			
Dry	436	0.0	No	BH06	15	15		@18' Increase of silt from some to abundant, trace clay tan motteling.			
								@34' Gypsum crystalline (1-3mm).			
Dry	480	0.0	No	BH06	20	20		@39' Increase clay from trace to some.			
								@42' Decrease of silt from abundant to some.			
Dry	580	0.0	No	BH06	25	25					
Dry	884	0.0	No	BH06	30	30					
Dry	1,028	0.0	No	BH06	35	35					
Dry	1,276	0	No	BH06	40	40					
Dry	752	0	No	BH06	45	45					

					Sample Name: BH06		Date: 06/12/2024	
					Site Name: Yates Federal #001			
					Incident Number: nAB1428734057, nRM2011138650			
					Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: HSA	
Site Coordinates: 32.000544, -103.967683					Hole Diameter: 3.75"		Total Depth: 55'	
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	528	0.0	No	BH06	50	48	GYP	(48-55') GYPSUM, dry, white, crystalline, slow fizz to no reaction in HCL, chalky cutting, no stain, no odor.
Dry	436	0.0	No	BH06	55	55		
Total Depth								



Sample Name: BH07 Date: 06/12/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA
 Hole Diameter: 3.75" Total Depth: 35'

Site Coordinates: 32.001236, -103.966924

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	192	0.0	No	BH07	0.5	0.5	SP-SM	(0-13') SAND, dry, light brown, poorly graded with trace silt, very fine to fine, poorly consolidated, no stain, no odor.
					4	4		@10' Increased silt, gravel increase in size (1mm-2cm), no organics.
Dry	<124	0.0	No	BH07	10	10		(13-19') SAND, dry, light reddish brown, well graded with silt, fine-coarse, trace gravel (1-2mm), no stain, no odor.
							SW-SM	@15' Some large subrounded gravel/cobbles.
Dry	352	0.0	No	BH07	15	15		(19-35') SILT, dry, reddish brown, poorly graded moderately consolidated, no stain, no odor.
							ML	@25' Trace clay, some yellow mottling, trace greyish reduction spots (1-2mm).
Dry	392	0.0	No	BH07	20	20		
Dry	352	0.0	No	BH07	25	25		
Dry	436	0.0	No	BH07	30	30		
Dry	392	0.0	No	BH07	35	35		

Total Depth

								Sample Name: BH08		Date: 06/12/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.000969, -103.966624								Hole Diameter: 3.75"		Total Depth: 35'	
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	0.0	No	BH08	0.5	0.5	SP-SM	(0-12') SAND, dry, light brown, poorly graded with trace silt, very fine to fine, poorly consolidated, no stain, no odor. @3' Color change to tan-yellow brown, increase in consolidation, trace large subround sandstone gravel (3-5cm). @8' Color change to reddish brown. (12-28') SILT, dry, fine, reddish brown, poorly graded, moderately consolidated, no stain, no odor. (28-35') CLAYEY-SAND, dry, fine, reddish brown, low plasticity, non-cohesive, trace gypsum grains/ veins, some sand, inclusions, no stain, no odor. @33' Increased sand inclusions with tan to yellow mottling.			
					4	4					
Dry	168	0.0	No	BH08	10	10					
Dry	316	0.0	No	BH08	15	15	ML				
Dry	528	0.0	No	BH08	20	20					
Dry	816	0.0	No	BH08	25	25					
Dry	816	0.0	No	BH08	30	30	SC				
Dry	528	0.0	No	BH08	35	35					
Total Depth											

								Sample Name: BH09		Date: 06/13/2024		
								Site Name: Yates Federal #001				
								Incident Number: nAB1428734057, nRM2011138650				
								Job Number: 18154				
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA		
Site Coordinates: 32.000530, -103.967475								Hole Diameter: 3.75"		Total Depth: 50'		
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	BH09	0.5	0.5	SP-SM	(0-30') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine, trace organic, no stain, no odor.				
Dry	692	0.1	No	BH09	4	4		@3' Increase of silt from some to abundant, increase of consolidation.				
								@9' Abundant white crystalline gypsum vein, abundant grey reduction spot (0.5-2mm).				
Dry	692	0.0	No	BH09	10	10		@10' Trace large grey mudstone inclusion (1-4cm) react with HCL.				
Dry	580	0.1	No	BH09	15	15		@15' Some large maroon subround-subangular sandstone gravel (1-3cm).				
Dry	392	0.0	No	BH09	20	20		@20' Decrease of consolidation, color change.				
								(30-31') SILT, dry, reddish brown, poorly graded very fine to fine, moderately consolidated, very fine lamination, no stain, no odor.				
Dry	392	0.0	No	BH09	25	25		(31-48') CLAYEY-SAND, dry, reddish brown, low plasticity, non-cohesive, trace grey reduction spot (0.5-1mm), no stain, no odor.				
Dry	352	0.0	No	BH09	30	30		ML	@44' Trace large tan-grey sandstone inclusion (1-3cm). (48-50') CLAY, moist, reddish brown, fine medium plasticity, cohesives, some sand inclusions, trace reduction spot, no stain, no odor.			
								SC				
Dry	352	0.0	No	BH09	35	35						
Dry	352	0	No	BH09	40	40						
Dry	436	0	No	BH09	45	45						

					Sample Name: BH09		Date: 06/13/2024	
					Site Name: Yates Federal #001			
					Incident Number: nAB1428734057, nRM2011138650			
					Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: GM		Method: HSA	
Site Coordinates: 32.000530, -103.967475					Hole Diameter: 3.75"		Total Depth: 50'	
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
Moist	436	0.0	No	BH09	50	48 50	CL	(48-50') CLAY, moist, reddish brown, fine medium plasticity, cohesives, some sand inclusions, trace reduction spot, no stain, no odor. Note: Cuttings used from TD to 10 ft bgs, hole plugged from 10' to surface; 3 bags of bentonite (50 lbs)
Total Depth								



Sample Name: BH10

Date: 06/13/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.000878, -103.967703

Hole Diameter: 3.75"

Total Depth: 35'

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	1,568	0.0	No	BH10	0.5	0.5	SP-SM	(0-35') SAND, dry, light reddish brown, poorly graded with trace silt, very fine to fine, some tan mottling, poorly consolidation, no stain, no odor.
					4	4		@6' Increase in consolidation, some redaction spot (0.5-2mm)
								@20' Color Change to reddish brown.
Dry	1,028	0.0	No	BH10	10	10		@24' Increase of redaction spot, increase of consolidation, increase of silt and trace clay.
Dry	1,276	0.0	No	BH10	15	15		@30' Empty split spoon, sample from cuttings.
Dry	692	0.0	No	BH10	20	20		
Dry	392	0.0	No	BH10	25	25		
Dry	392	0.0	No	BH10	30	30		
Dry	392	0.0	No	BH10	35	35		

Total Depth



Sample Name: BH11

Date: 06/14/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.000896, -103.967798

Hole Diameter: 3.75"

Total Depth: 35'

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	0.0	No	BH11	0.5	0.5	SP-SM	(1-15') SAND, dry, light reddish brown, poorly graded with trace silt, very fine-fine, trace organic, fine veins of gypsum, no stain, no odor.
Dry	<124	0.0	No	BH11	4	4		@2' No organic.
Dry	<124	0.0	No	BH11	10	10		(15-35') GYPSUM, dry white crystalline, no fizz to HCL, chalky cutting, no stain, no odor.
Dry	<124	0.0	No	BH11	15	15		@20' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH11	20	20	GYP	@25' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH11	25	25		
Dry	<124	0.0	No	BH11	30	30		
Dry	<124	0.0	No	BH11	35	35		

Total depth

								Sample Name: BH12		Date: 06/14/2024 & 06/17/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.001060, -103.966525								Hole Diameter: 3.75"		Total Depth: 55'	
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	0.0	No	BH12	0.5	0.5	SP-SM	(0-11') SAND, dry, light brown, poorly graded with trace silt, very fine to fine, trace organic, trace gravel, subrounded-subangular (1-3mm), no stain, no odor. @9' color change to dark reddish brown. (11-35') SILT, dry, dark reddish brown, poorly graded very fine to fine, some grey reduction spot, trace tan sandstone inclusion, trace mottling, moderately consolidated, no stain, no odor. @15' Increased of reduction spot. @21' increase silt. @45' Atkins added 5 gallons of water.			
Dry	316	0.0	No	BH12	4	4					
Dry	316	0.0	No	BH12	10	10					
Dry	220	0.0	No	BH12	15	15	ML				
Dry	392	0.0	No	BH12	20	20					
Dry	316	0.0	No	BH12	25	25					
Dry	316	0.0	No	BH12	30	30					
Dry	220	0.0	No	BH12	35	35					
Dry	220	0	No	BH12	40	40					
Dry	220	0	No	BH12	45	45					

					Sample Name: BH12		Date: 06/14/2024 & 06/17/2024	
					Site Name: Yates Federal #001			
					Incident Number: nAB1428734057, nRM2011138650			
					Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: HSA	
Site Coordinates: 32.001060, -103.966525					Hole Diameter: 3.75"		Total Depth: 55'	
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	BH12	50	50	ML	@51' Trace gypsum crystalline.
Dry	220	0.0	No	BH12	55	55		
Total Depth								

								Sample Name: BH13		Date: 06/17/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.000552, -103.967745								Hole Diameter: 3.75"		Total Depth: 55'	
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	0.0	No	BH13	0.5	0.5	SP-SM	(0-11') SAND, dry light brown, poorly graded with trace silt, very fine-fine, trace organic, no stain, no odor.			
Dry	<124	0.0	No	BH13	4	4		@3' Abundant gypsum (2").			
								@10' Abundant gypsum.			
								(11-49') GYPSUM, dry white crystalline, no fizz to HCL, chalky cutting, no stain, no odor.			
Dry	192	0.0	No	BH13	10	10		@25' Split spoon came out empty, sample collected from cutting.			
							GYP	@30' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH13	15	15		@35' Split spoon came out empty, sample collected from cutting.			
Dry	124	0.0	No	BH13	20	20		@40' Split spoon came out empty, sample collected from cutting.			
Dry	124	0.0	No	BH13	25	25		@45' Split spoon came out empty, sample collected from cutting.			
Dry	124	0.0	No	BH13	30	30					
Dry	192	0	No	BH13	35	35					
Dry	<124	0	No	BH13	40	40					
Dry	124	0	No	BH13	45	45					

								Sample Name: BH13		Date: 06/17/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.000552, -103.967745								Hole Diameter: 3.75"		Total Depth: 55'	
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	0.0	No	BH13	50	49 50	SP-SM	(49-55') SAND, dry light brown, poorly graded with trace silt, very fine-fine, trace organic, no stain, no odor.			
Dry	<124	0.0	No	BH13	55	55		@50' Split spoon came out empty, sample collected from cutting.			
								@55' Split spoon came out empty, sample collected from cutting.			
Total Depth											

								Sample Name: BH14		Date: 06/18/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.000635, -103.967031								Hole Diameter: 3.75"		Total Depth: 50'	
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	352	0.0	No		0.5	0.5	SP-SM	(0-29') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine, trace organic, trace fine vein of gypsum, no stain, no odor.			
Dry	480	0.0	No	BH14	4	4		@ 2' No organic.			
								@12' Some large maroon subangular-subrounded sandstone gravel (1-4cm).			
Dry	352	0.0	No	BH14	10	10		@15' Increase of silt.			
								@19' Decrease of silt.			
Dry	352	0.0	No	BH14	15	15		(23-39') SILT, dry, reddish brown, poorly graded very fine to fine, moderately consolidated, very fine lamination, no stain, no odor.			
Dry	<124	0.0	No	BH14	20	20		@25' Color Change from reddish brown to tan (3") with inclusion of some dark brown mudstone.			
							SP-SC	(39-50') SILT, dry, reddish brown, poorly graded with some clay, moderately consolidated, no stain. no odor.			
Dry	124	0.0	No	BH14	25	25		@42' Trace sandstone gravel (1-2cm).			
Dry	352	0.0	No	BH14	30	30					
Dry	352	0.0	No	BH14	35	35					
							SM-ST				
Dry	1,028	0	No	BH14	40	40					
Dry	952	0	No	BH14	45	45					

					Sample Name: BH14		Date: 06/18/2024	
					Site Name: Yates Federal #001			
					Incident Number: nAB1428734057, nRM2011138650			
					Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: GM		Method: HSA	
Site Coordinates: 32.000635, -103.967031					Hole Diameter: 3.75"		Total Depth: 50'	
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	1,276	0.0	No	BH14	50	50	SP-SM	
Total Depth								



Sample Name: BH15

Date: 06/19/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.001318, -103.967834

Hole Diameter: 3.75"

Total Depth: 35'

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	0.0	No	BH15	0.5	0.5	SP-SM	(1-15') SAND, dry light brown, poorly graded with trace silt, very fine-fine, some fine veins of gypsum, trace organic, no stain, no odor.
Dry	<124	0.0	No	BH15	4	4		@2' No organic.
								(11-35') GYPSUM, dry white crystalline, no fizz to HCL, chalky cutting, no stain, no odor.
Dry	<124	0.0	No	BH15	10	10		@15' Split spoon came out empty, sample collected from cutting.
							GYP	@20' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH15	15	15		@25' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH15	20	20		@30' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH15	25	25		@35' Split spoon came out empty, sample collected from cutting.
Dry	<124	0.0	No	BH15	30	30		
Dry	<124	0	No	BH15	35	35		
Total Depth								

								Sample Name: BH16		Date: 06/19/2024	
								Site Name: Yates Federal #001			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.001621, -103.967255								Hole Diameter: 3.75"		Total Depth: 35'	
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	0.0	No	BH16	0.5	0.5	SP-SM	(1-4') SAND, dry light brown, well graded with trace silt, fine-coarse, trace organic, no stain, no odor.			
Dry	<124	0.0	No	BH16	4	4	GYP	(4-35') GYPSUM, dry white crystalline, no fizz to HCL, chalky cutting, no stain, no odor.			
								@10' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH16	10	10		@15' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH16	15	15		@20' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH16	20	20		@25' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH16	25	25		@30' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0.0	No	BH16	30	30		@35' Split spoon came out empty, sample collected from cutting.			
Dry	<124	0	No	BH16	35	35					
Total Depth											



Sample Name: BG01 Date: 10/22/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002174, -103.966809

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG01	0.5	0.5	SP-SM	(0-25') Sand, dry, light brown, poorly graded with some silt, very fine to fine grain, poorly consolidated, trace organic, no stain, no odor
Dry	<116	-	No	BG01	1	1		@ 1' Color change from light brown to reddish brown
Dry	<116	-	No	BG01	2	2		@ 2' No organic, some reduction spots
Dry	<116	-	No	BG01	3	3		
Dry	140	-	No	BG01	4	4		@ 4' Some gypsum crystalline
Dry	284	-	No	BG01	5	5		
Dry	764	-	No	BG01	6	6		
Dry	1212	-	No	BG01	7	7		@ 7' Moderately consolidated
Dry	700	-	No	BG01	8	8		
Dry	536	-	No	BG01	9	9		
Dry	536	-	No	BG01	10	10		@ 10' Increase in silt
Dry	368	-	No	BG01	11	11		
Dry	608	-	No	BG01	12	12		
Dry	556	-	No	BG01	13	13		@ 13' Decrease of reduction spots and gypsum crystalline
Dry	608	-	No	BG01	14	14		
Dry	456	-	No	BG01	15	15		
Dry	368	-	No	BG01	16	16		
Dry	556	-	No	BG01	17	17		@ 17' No gypsum
Dry	556	-	No	BG01	18	18		
Dry	608	-	No	BG01	19	19		



Sample Name: BG01 Date: 10/22/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002174, -103.966809

Hole Diameter: 4"

Total Depth: 60'

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	504	-	No	BG01	20	20		
Dry	456	-	No	BG01	21	21		
Dry	408	-	No	BG01	22	22		
Dry	456	-	No	BG01	23	23		
Dry	408	-	No	BG01	24	24		@ 24' Abundant gypsum crystalline, some clay
Dry	368	-	No	BG01	25	25	SM-ST	(25-60') Sand, dry, reddish brown, poorly graded with silt, very fine to fine grain, moderately consolidated, abundant reduction spot, some gypsum crystalline, no stain, no odor.
Dry	456	-	No	BG01	26	26		
Dry	456	-	No	BG01	27	27		
Dry	328	-	No	BG01	28	28		
Dry	292	-	No	BG01	29	29		@ 29' Some clay.
Dry	196	-	No	BG01	30	30		
Dry	196	-	No	BG01	31	31		
Dry	292	-	No	BG01	32	32		
Dry	196	-	No	BG01	33	33		
Dry	284	-	No	BG01	34	34		
Dry	220	-	No	BG01	35	35		
Dry	188	-	No	BG01	36	36		
Dry	284	-	No	BG01	37	37		
Dry	284	-	No	BG01	38	38		



Sample Name: BG01 Date: 10/22/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002174, -103.966809

Hole Diameter: 4"

Total Depth: 60'

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	504	-	No	BG01	39	39	SM-ST	(25-60') Sand, dry, reddish brown, poorly graded with silt, very fine to fine grain, moderately consolidated, abundant reduction spot, some gypsum crystalline, no stain, no odor. @ 45' Increase of reduction spots to some
Dry	456	-	No	BG01	40	40		
Dry	408	-	No	BG01	41	41		
Dry	456	-	No	BG01	42	42		
Dry	408	-	No	BG01	43	43		
Dry	368	-	No	BG01	44	44		
Dry	456	-	No	BG01	45	45		
Dry	456	-	No	BG01	46	46		
Dry	328	-	No	BG01	47	47		
Dry	292	-	No	BG01	48	48		
Dry	140	-	No	BG01	49	49		
Dry	164	-	No	BG01	50	50		
Dry	140	-	No	BG01	51	51		
Dry	116	-	No	BG01	52	52		
Dry	116	-	No	BG01	53	53		
Dry	116	-	No	BG01	54	54		
Dry	116	-	No	BG01	55	55		
Dry	116	-	No	BG01	56	56		
Dry	116	-	No	BG01	57	57		



Sample Name: BG01

Date: 10/22/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.002174, -103.966809

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG01	58	58	SM-MT	(25-60') Sand, dry, reddish brown, poorly graded with silt, very fine to fine grain, moderately consolidated, abundant reduction spot, some gypsum crystalline, no stain, no odor.
Dry	<116	-	No	BG01	59	59		
Dry	<116	-	No	BG01	60	60		
Total Depth								



Sample Name: BG02 Date: 10/23/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002033, -103.967222

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG02	0.5	0.5	GYP	(0-60') Gypsum, dry, chalky, gray to white, well consolidated, sugary looking, no stain, no odor.
Dry	<116	-	No	BG02	1	1		
Dry	<116	-	No	BG02	2	2		
Dry	<116	-	No	BG02	3	3		
Dry	<116	-	No	BG02	4	4		
Dry	<116	-	No	BG02	5	5		
Dry	<116	-	No	BG02	6	6		
Dry	<116	-	No	BG02	7	7		
Dry	<116	-	No	BG02	8	8		
Dry	<116	-	No	BG02	9	9		
Dry	<116	-	No	BG02	10	10		
Dry	<116	-	No	BG02	11	11		
Dry	<116	-	No	BG02	12	12		
Dry	<116	-	No	BG02	13	13		
Dry	<116	-	No	BG02	14	14		
Dry	<116	-	No	BG02	15	15		
Dry	<116	-	No	BG02	16	16		
Dry	<116	-	No	BG02	17	17		
Dry	<116	-	No	BG02	18	18		
Dry	<116	-	No	BG02	19	19		



Sample Name: BG02 Date: 10/23/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002033, -103.967222

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG02	20	20	GYP	(0-60') Gypsum, dry, chalky, gray to white, well consolidated, sugary looking, no stain, no odor.
Dry	<116	-	No	BG02	21	21		
Dry	<116	-	No	BG02	22	22		
Dry	<116	-	No	BG02	23	23		
Dry	<116	-	No	BG02	24	24		
Dry	<116	-	No	BG02	25	25		
Dry	<116	-	No	BG02	26	26		
Dry	<116	-	No	BG02	27	27		
Dry	<116	-	No	BG02	28	28		
Dry	<116	-	No	BG02	29	29		
Dry	<116	-	No	BG02	30	30		
Dry	<116	-	No	BG02	31	31		
Dry	<116	-	No	BG02	32	32		
Dry	<116	-	No	BG02	33	33		
Dry	<116	-	No	BG02	34	34		
Dry	<116	-	No	BG02	35	35		
Dry	<116	-	No	BG02	36	36		
Dry	<116	-	No	BG02	37	37		
Dry	<116	-	No	BG02	38	38		



Sample Name: BG02 Date: 10/23/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.002033, -103.967222

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG02	39	39	GYP	(0-60') Gypsum, dry, chalky, gray to white, well consolidated, sugary looking, no stain, no odor.
Dry	<116	-	No	BG02	40	40		
Dry	<116	-	No	BG02	41	41		
Dry	<116	-	No	BG02	42	42		@ 42' Gypsum crystalline has more definitive cleavage, more consolidation
Dry	<116	-	No	BG02	43	43		
Dry	<116	-	No	BG02	44	44		
Dry	<116	-	No	BG02	45	45		@ 45' Sample is moist (wet) due to added water for drilling.
Dry	<116	-	No	BG02	46	46		
Dry	<116	-	No	BG02	47	47		
Dry	<116	-	No	BG02	48	48		
Dry	<116	-	No	BG02	49	49		
Dry	<116	-	No	BG02	50	50		
Dry	<116	-	No	BG02	51	51		
Dry	<116	-	No	BG02	52	52		
Dry	<116	-	No	BG02	53	53		
Dry	<116	-	No	BG02	54	54		
Dry	<116	-	No	BG02	55	55		
Dry	<116	-	No	BG02	56	56		
Dry	<116	-	No	BG02	57	57		



Sample Name: BG02

Date: 10/23/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.002033, -103.967222

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG02	58	58	GYP	(0-60') Gypsum, dry, chalky, gray to white, well consolidated, sugary looking, no stain, no odor.
Dry	<116	-	No	BG02	59	59		
Dry	<116	-	No	BG02	60	60		
Total Depth								



Sample Name: BG03	Date: 10/23/2024
Site Name: Yates Federal #001	
Incident Number: nAB1428734057, nRM2011138650	
Job Number: 18154	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK	Method: Sonic
Site Coordinates: 32.001442, -103.966610	Hole Diameter: 4"
	Total Depth: 60'

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	-	No	BG03	0.5	0.5	SP-SM	(0-12') Sand, dry, light brown, moderately consolidated, poorly graded with some silt, very fine to fine grain, trace organic, no stain, no odor. @ 1' Color change to reddish brown, abundant reduction spots, some veins of gypsum crystalline with cleavage. @ 4' increase of consolidation. @ 7' decrease of reduction spots, increase of silt to abundant. @ 10' Sample moist due to added water.
Dry	220	-	No	BG03	1	1		
Dry	220	-	No	BG03	2	2		
Dry	284	-	No	BG03	3	3		
Dry	396	-	No	BG03	4	4		
Dry	396	-	No	BG03	5	5		
Dry	764	-	No	BG03	6	6		
Dry	284	-	No	BG03	7	7		
Dry	356	-	No	BG03	8	8		
Dry	484	-	No	BG03	9	9		
Dry	248	-	No	BG03	10	10		
Dry	316	-	No	BG03	11	11		
Dry	248	-	No	BG03	12	12	ML	(12-60') Silt, dry, reddish brown, poorly graded, very fine grain, poorly consolidated, some gypsum, no stain, no odor.
Dry	220	-	No	BG03	13	13		
Dry	248	-	No	BG03	14	14		
Dry	284	-	No	BG03	15	15		
Dry	284	-	No	BG03	16	16		
Dry	284	-	No	BG03	17	17		
Dry	356	-	No	BG03	18	18		
Dry	220	-	No	BG03	19	19		



Sample Name: BG03 Date: 10/23/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.001442, -103.966610

Hole Diameter: 4"

Total Depth: 60'

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	188	-	No	BG03	20	20	ML	(12-60') Silt, dry, reddish brown, poorly graded, very fine grain, poorly consolidated, some gypsum, no stain, no odor. @ 20' 0.5' of very good gypsum crystalline. @21' decrease of gypsum.
Dry	188	-	No	BG03	21	21		
Dry	188	-	No	BG03	22	22		
Dry	188	-	No	BG03	23	23		
Dry	188	-	No	BG03	24	24		
Dry	220	-	No	BG03	25	25		
Dry	220	-	No	BG03	26	26		
Dry	188	-	No	BG03	27	27		
Dry	140	-	No	BG03	28	28		
Dry	140	-	No	BG03	29	29		
Dry	<116	-	No	BG03	30	30		
Dry	<116	-	No	BG03	31	31		
Dry	<116	-	No	BG03	32	32		
Dry	<116	-	No	BG03	33	33		
Dry	<116	-	No	BG03	34	34		
Dry	<116	-	No	BG03	35	35		
Dry	<116	-	No	BG03	36	36		
Dry	<116	-	No	BG03	37	37		
Dry	<116	-	No	BG03	38	38		



Sample Name: BG03 Date: 10/23/2024
 Site Name: Yates Federal #001
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.001442, -103.966610

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG03	39	39	ML	(12-60') Silt, dry, reddish brown, poorly graded, very fine grain, poorly consolidated, some gypsum, no stain, no odor.
Dry	<116	-	No	BG03	40	40		
Dry	<116	-	No	BG03	41	41		
Dry	<116	-	No	BG03	42	42		
Dry	<116	-	No	BG03	43	43		
Dry	<116	-	No	BG03	44	44		
Dry	<116	-	No	BG03	45	45		
Dry	<116	-	No	BG03	46	46		
Dry	<116	-	No	BG03	47	47		
Dry	<116	-	No	BG03	48	48		@ 48' increase of gypsum crystalline.
Dry	<116	-	No	BG03	49	49		
Dry	<116	-	No	BG03	50	50		
Dry	<116	-	No	BG03	51	51		
Dry	<116	-	No	BG03	52	52		
Dry	<116	-	No	BG03	53	53		
Dry	<116	-	No	BG03	54	54		
Dry	<116	-	No	BG03	55	55		
Dry	<116	-	No	BG03	56	56		
Dry	<116	-	No	BG03	57	57		



Sample Name: BG03

Date: 10/23/2024

Site Name: Yates Federal #001

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.001442, -103.966610

Hole Diameter: 4"

Total Depth: 60'

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	-	No	BG03	58	58	ML	(12-60') Silt, dry, reddish brown, poorly graded, very fine grain, poorly consolidated, some gypsum, no stain, no odor.
Dry	<116	-	No	BG03	59	59		
Dry	<116	-	No	BG03	60	60		

Total Depth

APPENDIX G

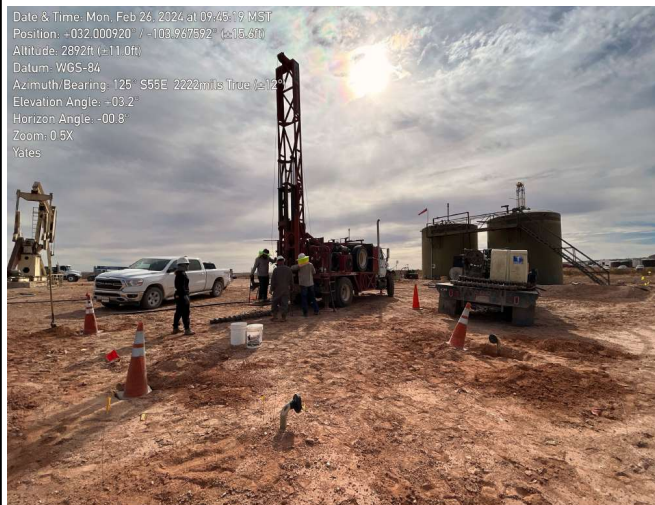
Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #1

Incident Number nAB1428734057 and nRM2011138650

**Photograph 1****Date: 02/26/2024**

Description: Southeastern view during delineation activities near BH01.

**Photograph 2****Date: 02/26/2024**

Description: Southwestern view of delineation activities near BH01.

**Photograph 3****Date: 02/26/2024**

Description: Southwestern view of delineation activities near BH02.

**Photograph 4****Date: 02/26/2024**

Description: Northwestern view of delineation activities near BH03.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #1

Incident Number nAB1428734057 and nRM2011138650

Date & Time: Tue, Feb 27, 2024 at 08:05:56 MST
 Position: +032.000662° / -103.967043° (±11.4ft)
 Altitude: 2898ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 235° S55W 417mils True (±19°)
 Elevation Angle: -05.4°
 Horizon Angle: +01.6°
 Zoom: 1.0X
 Yates BH04-19-21ft

**Photograph 5****Date: 02/27/2024**

Description: Southwestern view of delineation activities near BH04.

Date & Time: Tue, Feb 27, 2024 at 12:27:04 MST
 Position: +032.001800° / -103.967878° (±15.4ft)
 Altitude: 2894ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 171° S10W 3040mils True (±15°)
 Elevation Angle: -02.4°
 Horizon Angle: -01.4°
 Zoom: 1.0X
 BH05 0-25'

**Photograph 6****Date: 02/27/2024**

Description: Southeastern view of delineation activities near BH05.

Position: +032.000529° / -103.967705° (±15.1ft)
 Altitude: 2898ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 005° N05E 0089mils True (±14°)
 Elevation Angle: -04.3°
 Horizon Angle: -02.2°
 Zoom: 0.5X
 Yates Fed #1 PH06

**Photograph 7****Date: 06/12/2024**

Description: Northeastern view of delineation activities near PH06/BH06.

Position: +032.001955° / -103.967100° (±13.3ft)
 Altitude: 2892ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 313° N47W 5564mils True (±12°)
 Elevation Angle: +03.9°
 Horizon Angle: -00.8°
 Zoom: 0.5X
 Yates

**Photograph 8****Date: 10/23/2024**

Description: Northwestern view of delineation activities near BG02.

APPENDIX H

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
Delineation Soil Samples - Incident Number nAB1428734057 and NRM2011138650									
BH01	02/26/2024	0.5	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	10,400
BH01	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,180
BH01	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,300
BH01	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,590
BH01	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,800
BH01	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	797
BH01	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	382
BH01	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	588
BH02	02/26/2024	0.5	<0.0250	<0.0500	<20.0	635	1180	1,820	1,400
BH02	02/26/2024	4	<0.0250	<0.0500	<20.0	852	1060	1,910	347
BH02	02/26/2024	10	<0.0250	<0.0500	<20.0	104	125	229	286
BH02	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,280
BH02	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,130
BH02	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	777
BH02	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	537
BH02	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	476
BH03	02/26/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	5,770
BH03	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,870
BH03	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,170
BH03	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,760
BH03	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,580
BH03	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,480
BH03	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH03	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	588
BH04	02/26/2024	0.5	<0.0250	<0.0500	<20.0	179	260	439	4,090
BH04	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,340
BH04	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,470
BH04	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,750



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BH04	02/27/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,470
BH04	02/27/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,100
BH04	02/27/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	853
BH04	02/27/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	715
BH04	06/11/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	833
BH04	06/11/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,120
BH04	06/11/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	752
BH04	06/11/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	970
BH04	06/18/2024	59	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	838
BH05	02/27/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,740
BH05	02/27/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,370
BH05	02/27/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,120
BH05	02/27/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,410
BH05	02/27/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	597
BH05	02/27/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	671
BH05	02/27/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	576
BH05	02/27/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	392
PH06	05/01/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH06	05/01/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH06	06/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	497
BH06	06/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	560
BH06	06/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	551
BH06	06/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	522
BH06	06/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	588
BH06	06/12/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH06	06/12/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	994



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SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BH06	06/12/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,200
BH06	06/12/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,160
BH06	06/12/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	533
BH06	06/12/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	425
PH02	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	131
PH02	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	26.6
BH07	06/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	266
BH07	06/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH07	06/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	519
BH07	06/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	500
BH07	06/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	529
BH07	06/12/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	776
BH07	06/12/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	666
PH01	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	121
PH01	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	68.1
BH08	06/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH08	06/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	315
BH08	06/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	544
BH08	06/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	874
BH08	06/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	926
BH08	06/12/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,600
BH08	06/12/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	399
BH09	06/13/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH09	06/13/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	760
BH09	06/13/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	829
BH09	06/13/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	762
BH09	06/13/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	394
BH09	06/13/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	522
BH09	06/13/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	500



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BH09	06/13/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	601
BH09	06/13/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	445
BH09	06/13/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	691
BH09	06/13/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	689
PH03	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	114
PH03	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	156
BH10	06/13/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,730
BH10	06/13/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,590
BH10	06/13/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,480
BH10	06/13/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,040
BH10	06/13/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	461
BH10	06/13/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	404
BH10	06/13/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	472
BH11	06/14/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH11	06/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	60.4
BH11	06/14/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH11	06/14/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH11	06/14/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH11	06/14/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH11	06/14/2024	30	<0.0250	<0.0500	<20.0	32.7	<50.0	32.7	<200
BH11	06/14/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH12	06/14/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	151
BH12	06/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	309
BH12	06/14/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	302
BH12	06/14/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	220
BH12	06/14/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	433
BH12	06/14/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	59.2
BH12	06/14/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	323
BH12	06/14/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	332



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BH12	06/14/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	331
BH12	06/17/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	232
BH12	06/17/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH12	06/17/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	204
BH13	06/17/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	37.9
BH13	06/17/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH13	06/17/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	44.4
BH13	06/17/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	123
BH13	06/17/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	06/17/2024	50	<0.0250	<0.0500	<20.0	44.7	<50.0	44.7	<200
BH13	06/17/2024	55	<0.0250	<0.0500	<20.0	43.1	<50.0	43.1	<200
PH05	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	53.9
PH05	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	30.7
BH14	06/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	210
BH14	06/18/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	235
BH14	06/18/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH14	06/18/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	66.1
BH14	06/18/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	135
BH14	06/18/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	171
BH14	06/18/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	143
BH14	06/18/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,400
BH14	06/18/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,350
BH14	06/18/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,320
BH14	06/18/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,450



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Yates Federal #001
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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)	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	100	600
BH15	06/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH15	06/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	23.7
BH15	06/19/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH15	06/19/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH15	06/19/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH15	06/19/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH15	06/19/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH15	06/19/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH16	06/19/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
PH04	04/18/2024	0.5	<0.0250	0.0566	<20.0	35.4	65.6	101	203
PH04	04/18/2024	1	<0.0250	0.0899	<20.0	47.9	77.8	126	237
Background Soil Samples - Incident Number nAB1428734057 and NRM2011138650									
BG01	10/22/2024	0.5	<0.0250	0.199	<20.0	<25.0	<50.0	<50.0	<20.0
BG01	10/22/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BG01	10/22/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG01	10/22/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG01	10/22/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	167
BG01	10/22/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	377
BG01	10/22/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	973
BG01	10/22/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,290
BG01	10/22/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	974
BG01	10/22/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	601



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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)	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	100	600
BG01	10/22/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	612
BG01	10/22/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	639
BG01	10/22/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	718
BG01	10/22/2024	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	734
BG01	10/22/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	837
BG01	10/22/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	641
BG01	10/22/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	638
BG01	10/22/2024	17	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	600
BG01	10/22/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	622
BG01	10/22/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	671
BG01	10/22/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	559
BG01	10/22/2024	21	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	600
BG01	10/22/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	566
BG01	10/22/2024	23	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	563
BG01	10/22/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	762
BG01	10/22/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	500
BG01	10/22/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	521
BG01	10/22/2024	27	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	485
BG01	10/22/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	387
BG01	10/22/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	336
BG01	10/22/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	369
BG01	10/22/2024	31	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	294
BG01	10/22/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	396
BG01	10/23/2024	33	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	337
BG01	10/23/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	240
BG01	10/23/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	230
BG01	10/23/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	189
BG01	10/23/2024	37	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	356
BG01	10/23/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	363



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NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
BG01	10/23/2024	39	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	269
BG01	10/23/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	310
BG01	10/23/2024	41	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	263
BG01	10/23/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	222
BG01	10/23/2024	43	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	213
BG01	10/23/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	244
BG01	10/23/2024	45	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	233
BG01	10/23/2024	46	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	194
BG01	10/23/2024	47	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	176
BG01	10/23/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	166
BG01	10/23/2024	49	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	147
BG01	10/23/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	181
BG01	10/23/2024	51	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	157
BG01	10/23/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	121
BG01	10/23/2024	53	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	111
BG01	10/23/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	102
BG01	10/23/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	99.9
BG01	10/23/2024	56	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	117
BG01	10/23/2024	57	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	124
BG01	10/23/2024	58	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	146
BG01	10/23/2024	59	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	140
BG01	10/23/2024	60	<0.0250	<0.0500	<20.0	39.5	62.7	102	93.7
BG02	10/23/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



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NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
BG02	10/23/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	17	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	21	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	23	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/23/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	27	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/23/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/24/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/24/2024	31	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	33	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BG02	10/24/2024	36	<0.0250	<0.0500	<20.0	57.4	89.3	147	<200
BG02	10/24/2024	37	<0.0250	<0.0500	<20.0	88.6	160	249	<200
BG02	10/24/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	39	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	41	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	42	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	43	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	45	<0.0250	<0.0500	<20.0	276	530	806	<200
BG02	10/24/2024	46	<0.0250	<0.0500	<20.0	55.0	102	157	<200
BG02	10/24/2024	47	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	48	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	49	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/24/2024	51	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/24/2024	52	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	53	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	56	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	57	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	58	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG02	10/24/2024	59	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG02	10/24/2024	60	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/24/2024	0.5	<0.0250	<0.0500	<20.0	34.0	54.4	88.4	243
BG03	10/24/2024	1	<0.0250	<0.0500	<20.0	37.4	63.1	101	200
BG03	10/24/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	236
BG03	10/24/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	285



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BG03	10/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	378
BG03	10/24/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	364
BG03	10/24/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	682
BG03	10/24/2024	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	253
BG03	10/24/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	429
BG03	10/24/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	624
BG03	10/24/2024	10	<0.0250	<0.0500	<20.0	42.0	55.8	97.8	318
BG03	10/24/2024	11	<0.0250	<0.0500	<20.0	33.6	<50.0	33.6	339
BG03	10/24/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	337
BG03	10/24/2024	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	236
BG03	10/24/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	231
BG03	10/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	277
BG03	10/24/2024	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	238
BG03	10/24/2024	17	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	264
BG03	10/24/2024	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	275
BG03	10/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	213
BG03	10/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	135
BG03	10/24/2024	21	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	224
BG03	10/24/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/24/2024	23	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	164
BG03	10/25/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	147
BG03	10/25/2024	26	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	180
BG03	10/25/2024	27	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	160
BG03	10/25/2024	28	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	105
BG03	10/25/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	117
BG03	10/25/2024	31	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	32	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



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WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BG03	10/25/2024	33	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	34	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	108
BG03	10/25/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	36	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	37	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	38	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	39	<0.0250	<0.0500	<20.0	56.0	85.8	142	<100
BG03	10/25/2024	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	41	<0.0250	<0.0500	<20.0	302	534	836	143
BG03	10/25/2024	42	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	101
BG03	10/25/2024	43	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	44	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	45	<0.0250	<0.0500	<20.0	76.5	110	187	<200
BG03	10/25/2024	46	<0.0250	<0.0500	<20.0	48.5	73.9	123	<200
BG03	10/25/2024	47	<0.0250	<0.0500	<20.0	26.7	<50.0	26.7	<200
BG03	10/25/2024	48	<0.0250	<0.0500	<20.0	53.8	101	155	<200
BG03	10/25/2024	49	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	50	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	51	<0.0250	<0.0500	<20.0	25.0	<50.0	25.0	<200
BG03	10/25/2024	52	<0.0250	<0.0500	<20.0	25.9	<50.0	25.9	<200
BG03	10/25/2024	53	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	54	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	56	<0.0250	<0.0500	<20.0	72.8	116	189	<200
BG03	10/25/2024	57	<0.0250	<0.0500	<20.0	55.8	97.7	154	<200



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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)	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	100	600
BG03	10/25/2024	58	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BG03	10/25/2024	59	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BG03	10/25/2024	60	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200

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

[†] The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX I

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402258

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402258
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 14:11
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E402258-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 4'	E402258-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 2:11:43PM
--	---	--

BH01 0.5'

E402258-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	37.9	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	10400	200	10	02/28/24	02/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:11:43PM

BH01 4'

E402258-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		108 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	3180	20.0	1	02/28/24	02/28/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Volatile Organic Compounds by EPA 8260B

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

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 (2409051-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409051-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	300	20.0	250	48.0	101	80-120	0.716	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:11

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.



Page 12 of 13

Envirotech Analytical Laboratory

Printed: 2/28/2024 11:05:07AM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/28/24 08:00
Date Logged In: 02/28/24 08:44
Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402258
Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402259

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/13/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402259
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/13/24 15:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 10'	E402259-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 15'	E402259-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 20'	E402259-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 25'	E402259-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 10'

E402259-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	1300	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 15'

E402259-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		111 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	1590	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 20'

E402259-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		99.5 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	1800	40.0	2	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 25'

E402259-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		102 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	797	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Volatile Organic Compounds by EPA 8260B

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409067-BLK1)				Prepared: 02/29/24 Analyzed: 02/29/24					
Chloride	ND	20.0							
LCS (2409067-BS1)				Prepared: 02/29/24 Analyzed: 02/29/24					
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)				Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24			
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)				Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24			
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/13/24 15:21

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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.





Envirotech Analytical Laboratory

Printed: 2/28/2024 11:06:59AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/28/24 08:00
 Date Logged In: 02/28/24 08:50
 Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402259
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402269

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402269
Date Received: 2/28/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 14:27
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 30'	E402269-01A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 2:27:44PM
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BH01 30'

E402269-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/02/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/02/24	
Toluene	ND	0.0250	1	02/29/24	03/02/24	
o-Xylene	ND	0.0250	1	02/29/24	03/02/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/02/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/02/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	02/29/24	03/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/02/24	
<i>Surrogate: Toluene-d8</i>		87.8 %	70-130	02/29/24	03/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/02/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	02/29/24	03/02/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/02/24	
<i>Surrogate: Toluene-d8</i>		87.8 %	70-130	02/29/24	03/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>		84.0 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	382	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409068-BLK1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:27

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.



Envirotech Analytical Laboratory

Printed: 3/5/2024 2:17:52PM

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:	02/28/24 05:30	Work Order ID:	E402269
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Angelina Pineda
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
i.e. 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402270

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402270
Date Received: 2/28/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 35'	E402270-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:20:16AM
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BH01 35'

E402270-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.3 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.3 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>		82.8 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	588	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:20

- 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.



Page 11 of 12

Envirotech Analytical Laboratory

Printed: 2/29/2024 1:15:11PM

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
 Phone: (539) 573-4018
 Email: devon-team@ctechenv.com

Date Received: 02/28/24 05:30
 Date Logged In: 02/28/24 09:00
 Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402270
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402261

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402261
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E402261-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 4'	E402261-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:15:25AM

BH02 0.5'

E402261-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	635	125	5	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	1180	250	5	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1400	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:15:25AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 4'

E402261-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	852	50.0	2	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	1060	100	2	03/01/24	03/01/24	
Surrogate: n-Nonane	107 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	347	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:15

- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402261		01053-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719					Email: jim.raley@dv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
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	BGDOC NM	GDGC TX	Remarks					
12:30	02.26.24	S	1	BH02	1	0.5'						X							
12:40	02.26.24	S	1	BH02	2	4'						X							
02/27/24																			
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																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		02/27/24	6:00	Michelle Raley		2-27-24	1005	Received on ice: ☒ Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Raley		2-27-24	1628	Andrew MRS		2-27-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
Andrew MRS		2-27-24	2400	[Signature]		2/28/24	0800	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: 2/28/2024 11:02:48AM

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:	02/28/24 08:00	Work Order ID:	E402261
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:58	Logged In By:	Alexa Michaels
Email:	devon-team@etechev.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402262

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402262
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 10'	E402262-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 15'	E402262-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 20'	E402262-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 25'	E402262-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:16:33AM

BH02 10'

E402262-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	104	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	125	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	286	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:16:33AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 15'

E402262-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	112 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1280	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:16:33AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 20'

E402262-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	114 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1130	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:16:33AM

BH02 25'

E402262-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	777	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:16

- 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.

envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:07:11AM

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:	02/28/24 08:59	Work Order ID:	E402262
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402265

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402265
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 30'	E402265-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 3:04:47PM

BH02 30'

E402265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	85.5 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	537	200	10	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1)Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:04

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:18:15AM

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:	02/28/24 08:30	Work Order ID:	E402265
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402266

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402266
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 35'	E402266-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 3:01:06PM

BH02 35'

E402266-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	476	200	10	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

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 (2409053-BLK1)Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:01

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:23:39AM

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:	02/28/24 08:59	Work Order ID:	E402266
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402267

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402267
Date Received: 2/28/2024 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 9:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:17
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E402267-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 4'	E402267-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:17:30AM

BH03 0.5'

E402267-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	79.7 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	5770	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:17:30AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH03 4'

E402267-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	80.3 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1870	200	10	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:17

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 402267		010580007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/CRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@divn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
14:40	02.26.24	S	1	BH03	1	0.5'							X					
14:50	02.26.24	S	1	BH03	2	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.										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.								
Sampled by: EK										Lab Use Only								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: ☒ Y ☐ N										
Michelle Gay		02/27/24	8:00	Michelle Gay		2-27-24	1005	T1 _____ T2 _____ T3 _____										
Michelle Gay		2-27-24	1628	Andrew Miller		2-27-24	1730	AVG Temp °C 4										
Andrew Miller		2-27-24	2400	Andrew Miller		2/28/24	900	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:33:16AM

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:	02/28/24 09:00	Work Order ID:	E402267
Phone:	(539) 573-4018	Date Logged In:	02/28/24 09:00	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402268

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402268
Date Received: 2/28/2024 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 9:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:18
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 10'	E402268-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 15'	E402268-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 20'	E402268-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 25'	E402268-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:18:38AM

BH03 10'

E402268-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	82.0 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	2170	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:18:38AM

BH03 15'

E402268-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	75.9 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2760	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:18:38AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH03 20'

E402268-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	77.9 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2580	40.0	2	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:18:38AM

BH03 25'

E402268-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	76.3 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	2480	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:18

- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program						
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402268		005580007					5 day TAT							
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		Depth (ft.) TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM GDOC TX										State				
Phone: 832-541-7719					Email: jim.raley@dv.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897																
Incident ID: nAB1428734057, nRM2011138650																	Remarks				
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	BGDOC NM	GDOC TX								
15:00	02.26.24	S	1	BH03	1	10'						X									
15:10	02.26.24	S	1	BH03	2	15'						X									
15:20	02.26.24	S	1	BH03	3	20'						X									
15:30	02.26.24	S	1	BH03	4	25'						X									
02/27/24																					
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.												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.									
Sampled by: EK																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
<i>[Signature]</i>		02/27/24	6:00	<i>Michelle Raley</i>		2-27-24	1005	Received on ice: ☒ Y ☐ N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
<i>Michelle Raley</i>		2-27-24	1628	<i>Andrew</i>		2-27-24	1730														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C													
<i>Andrew</i>		2-27-24	2400	<i>Andrew</i>		2/28/24	900	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: 2/28/2024 9:42:34AM

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:	02/28/24 09:00	Work Order ID:	E402268
Phone:	(539) 573-4018	Date Logged In:	02/28/24 09:00	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402257

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402257
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 30'	E402257-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.

Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:13:01PM

BH03 30'

E402257-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.1 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.1 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	1010	200	10	02/28/24	02/28/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1) Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2) Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2) Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409051-BLK1)				Prepared: 02/28/24 Analyzed: 02/28/24					
Chloride	ND	20.0							
LCS (2409051-BS1)				Prepared: 02/28/24 Analyzed: 02/28/24					
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)				Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24			
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)				Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24			
Chloride	300	20.0	250	48.0	101	80-120	0.716	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:13

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/28/2024 8:41:58AM

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:	02/28/24 08:30	Work Order ID:	E402257
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:39	Logged In By:	Raina Schwanz
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402260

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/6/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402260
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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

Alexa Michaels
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labadmin@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 35'	E402260-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Project Name: Yates Federal #1

Workorder:E402260

Date Received: 02/28/2024

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
BH03 35'	E402260-01	Anions by EPA 300.0/9056A

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/6/2024 4:20:35PM
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BH03 35'

E402260-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane	110 %	50-200		02/29/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410056	
Chloride	588	200	10	03/06/24	03/06/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

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 (2410056-BLK1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	ND	20.0							
LCS (2410056-BS1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2410056-MS1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16700	400	250	18700	NR	80-120			M4
Matrix Spike Dup (2410056-MSD1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16500	400	250	18700	NR	80-120	1.08	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:20

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:03:09AM

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:	02/28/24 08:30	Work Order ID:	E402260
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:57	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402263

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402263
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E402263-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH04 4'	E402263-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 2:20:43PM

BH04 0.5'

E402263-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	179	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	260	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	4090	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/4/2024 2:20:43PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH04 4'

E402263-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	113 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	2340	200	10	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting	Spike	Source	Rec	Rec	RPD	RPD	
	mg/kg	Limit	Level	Result	%	Limits	%	Limit	Notes

Blank (2409053-BLK1)Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:20

- M2Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite
- DNRDid 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.

Page 12 of 13

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:12:13AM

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:	02/28/24 08:30	Work Order ID:	E402263
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402264

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402264
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 10'	E402264-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH04 15'	E402264-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/4/2024 2:19:09PM
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BH04 10'

E402264-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>	106 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1470	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 2:19:09PM

BH04 15'

E402264-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2409053
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	1750	20.0	1	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:19

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT			EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402264		010580007							5 day TAT				
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21181897															
Incident ID: nAB1428734057, nRM2011138650																				
Collected by: Edyte Konan																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks				
17:40	02.26.24	S	1	BH04	1	10'							X							
17:50	02.26.24	S	1	BH04	2	15'							X							
02/27/2024																				
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.												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.								
Sampled by: EK																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
[Signature]		02/27/24	6:00	[Signature]		2-27-24	1005	Received on ice: ☒ Y ☐ N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3												
[Signature]		2-27-24	1628	[Signature]		2-27-24	1730													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
[Signature]		2-27-24	2400	[Signature]		2/28/24	8:59	4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:16:56AM

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:	02/28/24 08:59	Work Order ID:	E402264
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402273

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402273
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:22
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 20'	E402273-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH04 25'	E402273-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:22:29AM

BH04 20'

E402273-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	95.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	95.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	83.9 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	1470	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:22:29AM

BH04 25'

E402273-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		81.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		81.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane		83.1 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	1100	40.0	2	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

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 (2409068-BLK1)Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:22

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402273		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com					WO: 21181897														
					Incident ID: nAB1428734057, nRM2011138650														
Collected by: Edyte Konan															Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
8:10	02.27.24	S	1	BH04	1	20'							X						
8:20	02.27.24	S	1	BH04	2	25'							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	Lab Use Only											
		02/28/24	10:30			2-28-24	1030	Received on ice: ☒ Y / ☐ N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
		2-28-24	1710			2-28	1749												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
		2-29	2405			2-29-24	0530	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.																			

02/28/24



envirotech

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Envirotech Analytical Laboratory

Printed: 2/29/2024 8:40:52AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:23
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402273
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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
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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402275

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402275
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 30'	E402275-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:23:23AM
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BH04 30'

E402275-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.2 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.2 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.3 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	853	100	5	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

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 (2409068-BLK1)Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:23

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/29/2024 8:47:57AM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
Date Logged In: 02/28/24 15:26
Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402275
Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402276

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402276
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 35'	E402276-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:24:51AM
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BH04 35'

E402276-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>		87.0 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	715	40.0	2	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:24:51AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:24:51AM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)

Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)

Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:24:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1) Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1) Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1) Source: E402267-02 Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1) Source: E402267-02 Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:24:51AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:24

- 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.



Envirotech Analytical Laboratory

Printed: 2/29/2024 9:16:04AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:28
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402276
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes
 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 (pca 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406121

Job Number: 01058-0007

Received: 6/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/18/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406121
Date Received: 6/13/2024 7:00:09AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/13/2024 7:00:09AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 06/18/24 12:46
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 40'	E406121-01A	Soil	06/11/24	06/13/24	Glass Jar, 2 oz.
BH04 45'	E406121-02A	Soil	06/11/24	06/13/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/18/2024 12:46:42PM

BH04 40'

E406121-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424086	
Benzene	ND	0.0250	1	06/13/24	06/15/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/15/24	
Toluene	ND	0.0250	1	06/13/24	06/15/24	
o-Xylene	ND	0.0250	1	06/13/24	06/15/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/15/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424080	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	82.0 %	50-200		06/13/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2424088	
Chloride	833	20.0	1	06/13/24	06/14/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/18/2024 12:46:42PM

BH04 45'

E406121-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424086
Benzene	ND	0.0250	1	06/13/24	06/15/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/15/24	
Toluene	ND	0.0250	1	06/13/24	06/15/24	
o-Xylene	ND	0.0250	1	06/13/24	06/15/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/15/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424086
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424080
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/13/24	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		06/13/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2424088
Chloride	1120	20.0	1	06/13/24	06/14/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:46:42PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424086-BLK1) Prepared: 06/13/24 Analyzed: 06/15/24

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	7.41		8.00		92.7	70-130			

LCS (2424086-BS1) Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.9	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike (2424086-MS1) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.99	0.0250	5.00	ND	99.8	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

Matrix Spike Dup (2424086-MSD1) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	4.88	0.0250	5.00	ND	97.6	54-133	3.46	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	3.15	20	
Toluene	4.83	0.0250	5.00	ND	96.6	61-130	3.31	20	
o-Xylene	4.71	0.0250	5.00	ND	94.3	63-131	3.13	20	
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131	3.14	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	3.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:46:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424086-BLK1) Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		8.00		110	70-130			

LCS (2424086-BS2) Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130			

Matrix Spike (2424086-MS2) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.95		8.00		112	70-130			

Matrix Spike Dup (2424086-MSD2) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	0.930	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		8.00		110	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:46:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424080-BLK1) Prepared: 06/13/24 Analyzed: 06/13/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

LCS (2424080-BS1) Prepared: 06/13/24 Analyzed: 06/13/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.0	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

Matrix Spike (2424080-MS1) Source: E406111-03 Prepared: 06/13/24 Analyzed: 06/13/24

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

Matrix Spike Dup (2424080-MSD1) Source: E406111-03 Prepared: 06/13/24 Analyzed: 06/13/24

Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.8	38-132	2.26	20	
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:46:42PM

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 (2424088-BLK1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424088-BS1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2424088-MS1)					Source: E406108-02		Prepared: 06/13/24 Analyzed: 06/13/24		
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2424088-MSD1)					Source: E406108-02		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	270	20.0	250	ND	108	80-120	0.155	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/18/24 12:46

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.





Envirotech Analytical Laboratory

Printed: 6/13/2024 10:44:38AM

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:	06/13/24 07:00	Work Order ID:	E406121
Phone:	(575) 200-6754	Date Logged In:	06/12/24 16:04	Logged In By:	Alexa Michaels
Email:	anna@etechnv.vom	Due Date:	06/19/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406113

Job Number: 01058-0007

Received: 6/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/14/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/14/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406113
Date Received: 6/13/2024 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/13/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/14/24 14:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 50'	E406113-01A	Soil	06/11/24	06/13/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/14/2024 2:22:14PM

BH04 50'

E406113-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424075
Benzene	ND	0.0250	1	06/13/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/13/24	
Toluene	ND	0.0250	1	06/13/24	06/13/24	
o-Xylene	ND	0.0250	1	06/13/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/13/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	06/13/24	06/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.0 %	70-130	06/13/24	06/13/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/13/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424075
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/13/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	06/13/24	06/13/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.0 %	70-130	06/13/24	06/13/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	06/13/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424080
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/13/24	
<i>Surrogate: n-Nonane</i>		92.4 %	50-200	06/13/24	06/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424085
Chloride	752	20.0	1	06/13/24	06/13/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/14/2024 2:22:14PM

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 (2424075-BLK1)

Prepared: 06/13/24 Analyzed: 06/13/24

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2424075-BS1)

Prepared: 06/13/24 Analyzed: 06/13/24

Benzene	2.15	0.0250	2.50		86.0	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.6	70-130			
Toluene	2.38	0.0250	2.50		95.1	70-130			
o-Xylene	2.47	0.0250	2.50		98.8	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.5	70-130			
Total Xylenes	7.39	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2424075-MS1)

Source: E406111-03

Prepared: 06/13/24 Analyzed: 06/13/24

Benzene	2.17	0.0250	2.50	ND	86.9	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135			
Toluene	2.43	0.0250	2.50	ND	97.0	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.66	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		92.9	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2424075-MSD1)

Source: E406111-03

Prepared: 06/13/24 Analyzed: 06/13/24

Benzene	2.20	0.0250	2.50	ND	88.1	48-131	1.44	23	
Ethylbenzene	2.47	0.0250	2.50	ND	99.0	45-135	0.995	27	
Toluene	2.44	0.0250	2.50	ND	97.5	48-130	0.535	24	
o-Xylene	2.64	0.0250	2.50	ND	105	43-135	3.57	27	
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135	2.96	27	
Total Xylenes	7.90	0.0250	7.50	ND	105	43-135	3.16	27	
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/14/2024 2:22:14PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424075-BLK1)

Prepared: 06/13/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2424075-BS2)

Prepared: 06/13/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	59.6	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.3	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike (2424075-MS2)

Source: E406111-03

Prepared: 06/13/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.565		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike Dup (2424075-MSD2)

Source: E406111-03

Prepared: 06/13/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	59.4	20.0	50.0	ND	119	70-130	2.65	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/14/2024 2:22:14PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424080-BLK1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

LCS (2424080-BS1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	238	25.0	250		95.0	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

Matrix Spike (2424080-MS1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

Matrix Spike Dup (2424080-MSD1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.8	38-132	2.26	20	
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/14/2024 2:22:14PM

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 (2424085-BLK1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424085-BS1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2424085-MS1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Chloride	270	20.0	250	ND	108	80-120			
Matrix Spike Dup (2424085-MSD1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Chloride	269	20.0	250	ND	107	80-120	0.402	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/14/24 14:22

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT			EPA Program																		
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA																
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406113	0958-0007						24 H TAT																		
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		Depth (ft.)	TPH GHO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State																	
Phone: 432-305-6415					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX													
Email: Devon-team@etechnv.com					WO: 21181897																											
Incident ID: nAB1428734057, nRM2011138650																																
Collected by: Edyte Konan							Lab Number								Remarks																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID																												
14:00	06.11.24	S	1	BH04		1	50'							x																		
06/12/2024																																
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																																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																								
[Signature]		06/12/24	10:30	Michelle Gonzales		6-12-24	1030	Received on ice: ☒ Y / ☐ N																								
Michelle Gonzales		6-12-24	1545	[Signature]		6-12-24	1645	T1 _____ T2 _____ T3 _____																								
[Signature]		6-12-24	2245	[Signature]		6-13-24	0700	AVG Temp °C 4																								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																



Envirotech Analytical Laboratory

Printed: 6/13/2024 10:30:09AM

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:	06/13/24 07:00	Work Order ID:	E406113
Phone:	(575) 200-6754	Date Logged In:	06/12/24 15:16	Logged In By:	Alexa Michaels
Email:	anna@etechnv.vom	Due Date:	06/13/24 17:00 (0 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406120

Job Number: 01058-0007

Received: 6/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/18/24

Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406120
Date Received: 6/13/2024 7:00:09AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/13/2024 7:00:09AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/18/24 12:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 55'	E406120-01A	Soil	06/11/24	06/13/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/18/2024 12:48:12PM

BH04 55'

E406120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424086	
Benzene	ND	0.0250	1	06/13/24	06/15/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/15/24	
Toluene	ND	0.0250	1	06/13/24	06/15/24	
o-Xylene	ND	0.0250	1	06/13/24	06/15/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/15/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.9 %	70-130	06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	06/13/24	06/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424080	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/13/24	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	06/13/24	06/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2424088	
Chloride	970	20.0	1	06/13/24	06/14/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:48:12PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424086-BLK1) Prepared: 06/13/24 Analyzed: 06/15/24

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	7.41		8.00		92.7	70-130			

LCS (2424086-BS1) Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.9	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike (2424086-MS1) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.99	0.0250	5.00	ND	99.8	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	98.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

Matrix Spike Dup (2424086-MSD1) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/17/24

Benzene	4.88	0.0250	5.00	ND	97.6	54-133	3.46	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	3.15	20	
Toluene	4.83	0.0250	5.00	ND	96.6	61-130	3.31	20	
o-Xylene	4.71	0.0250	5.00	ND	94.3	63-131	3.13	20	
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131	3.14	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.1	63-131	3.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:48:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2424086-BLK1) Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		8.00		110	70-130			

LCS (2424086-BS2) Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130			

Matrix Spike (2424086-MS2) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.95		8.00		112	70-130			

Matrix Spike Dup (2424086-MSD2) Source: E406121-01 Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	0.930	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.83		8.00		110	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:48:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424080-BLK1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

LCS (2424080-BS1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Diesel Range Organics (C10-C28)	238	25.0	250		95.0	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

Matrix Spike (2424080-MS1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132			
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

Matrix Spike Dup (2424080-MSD1)					Source: E406111-03		Prepared: 06/13/24 Analyzed: 06/13/24		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.8	38-132	2.26	20	
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/18/2024 12:48:12PM

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 (2424088-BLK1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424088-BS1)					Prepared: 06/13/24 Analyzed: 06/13/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2424088-MS1)					Source: E406108-02		Prepared: 06/13/24 Analyzed: 06/13/24		
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2424088-MSD1)					Source: E406108-02		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	270	20.0	250	ND	108	80-120	0.155	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/18/24 12:48

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: 8/14/2026 5:04:26 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To					Lab Use Only					TAT			EPA Program						
Project: Yates Federal #1					Attention: Jim Raley					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.					E406120		0408-0639231						5 day TAT						
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					Depth (ft.)	TPH GRO/DRO/OHO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State						
Phone: 432-305-6415					Email: jim.raley@divn.com													NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WO: 21181897																			
Incident ID: nAB1428734057, nRM2011138650																								
Collected by: Edyte Konan																				Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
15:00	06.11.24	S	1	BH04	1																			
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.										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) <i>[Signature]</i> Date: 06/12/24 Time: 10:30										Received by: (Signature) <i>Michelle Gonzales</i> Date: 6-12-24 Time: 1030														
Relinquished by: (Signature) <i>Michelle Gonzales</i> Date: 6-12-24 Time: 1545										Received by: (Signature) <i>[Signature]</i> Date: 6-12-24 Time: 1645														
Relinquished by: (Signature) <i>[Signature]</i> Date: 6-12-24 Time: 2245										Received by: (Signature) <i>Kyleigh R. Hume</i> Date: 6-13-24 Time: 0700														
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.																								

06/12/2024



envirotech

Envirotech Analytical Laboratory

Printed: 6/13/2024 10:44:04AM

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:	06/13/24 07:00	Work Order ID:	E406120
Phone:	(575) 200-6754	Date Logged In:	06/12/24 16:00	Logged In By:	Alexa Michaels
Email:	anna@etechnv.vom	Due Date:	06/19/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 6/20/2024 2:53:34 PM

JOB DESCRIPTION

Yates Federal #1
Eddy County NM

JOB NUMBER

890-6838-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/20/2024 2:53:34 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Laboratory Job ID: 890-6838-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project: Yates Federal #1

Job ID: 890-6838-1

Job ID: 890-6838-1

Eurofins Carlsbad

Job Narrative 890-6838-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 6/19/2024 8:09 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BH04 (890-6838-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-83520 and analytical batch 880-83641 were outside control limits: (880-44909-A-11-C MS) and (880-44909-A-11-D MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-83627 and analytical batch 880-83675 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Carlsbad

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Client Sample ID: BH04

Lab Sample ID: 890-6838-1

Date Collected: 06/18/24 09:30

Matrix: Solid

Date Received: 06/19/24 08:09

Sample Depth: 59

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 12:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 12:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 12:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/20/24 08:21	06/20/24 12:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 12:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/20/24 08:21	06/20/24 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	06/20/24 08:21	06/20/24 12:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/20/24 08:21	06/20/24 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/20/24 12:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/20/24 11:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 11:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 11:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	06/18/24 21:50	06/20/24 11:59	1
o-Terphenyl	130		70 - 130	06/18/24 21:50	06/20/24 11:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	838		50.0		mg/Kg			06/20/24 11:16	10

Eurofins Carlsbad

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6838-1	BH04	110	97
890-6838-1 MS	BH04	109	100
890-6838-1 MSD	BH04	110	102
LCS 880-83651/1-A	Lab Control Sample	110	102
LCSD 880-83651/2-A	Lab Control Sample Dup	107	102
MB 880-83651/5-A	Method Blank	112	93
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44909-A-11-C MS	Matrix Spike	109	109
880-44909-A-11-D MSD	Matrix Spike Duplicate	101	104
890-6838-1	BH04	121	130
LCS 880-83520/2-A	Lab Control Sample	127	120
LCSD 880-83520/3-A	Lab Control Sample Dup	123	121
MB 880-83520/1-A	Method Blank	102	108
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83651/5-A

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 11:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 11:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 11:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/20/24 08:21	06/20/24 11:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/20/24 08:21	06/20/24 11:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/20/24 08:21	06/20/24 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/20/24 08:21	06/20/24 11:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/20/24 08:21	06/20/24 11:40	1

Lab Sample ID: LCS 880-83651/1-A

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1119		mg/Kg		112	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2086		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-83651/2-A

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83651

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1210		mg/Kg		121	70 - 130	8	35
Toluene	0.100	0.1085		mg/Kg		109	70 - 130	8	35
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2246		mg/Kg		112	70 - 130	7	35
o-Xylene	0.100	0.1125		mg/Kg		113	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-6838-1 MS

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: BH04

Prep Type: Total/NA

Prep Batch: 83651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	<0.00201	U	0.100	0.09566		mg/Kg		96	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

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

Lab Sample ID: 890-6838-1 MS

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: BH04

Prep Type: Total/NA

Prep Batch: 83651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09450		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1959		mg/Kg		98	70 - 130
o-Xylene	<0.00201	U	0.100	0.09666		mg/Kg		97	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 890-6838-1 MSD

Matrix: Solid

Analysis Batch: 83656

Client Sample ID: BH04

Prep Type: Total/NA

Prep Batch: 83651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1089		mg/Kg		109	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09709		mg/Kg		97	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.100	0.09593		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2000		mg/Kg		100	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09856		mg/Kg		99	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-83520/1-A

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 83520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/18/24 21:50	06/20/24 08:14	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/18/24 21:50	06/20/24 08:14	1
o-Terphenyl	108		70 - 130				06/18/24 21:50	06/20/24 08:14	1

Lab Sample ID: LCS 880-83520/2-A

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1002		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.3		mg/Kg		94	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-83520/2-A

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 83520

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-83520/3-A

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 83520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	888.9		mg/Kg		89	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	891.1		mg/Kg		89	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-44909-A-11-C MS

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 83520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	937.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	555.6	F1	mg/Kg		54	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 880-44909-A-11-D MSD

Matrix: Solid

Analysis Batch: 83641

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 83520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	894.8		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	511.7	F1	mg/Kg		50	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	104		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83627/1-A

Matrix: Solid

Analysis Batch: 83675

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/20/24 10:01	1

Lab Sample ID: LCS 880-83627/2-A

Matrix: Solid

Analysis Batch: 83675

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-83627/3-A

Matrix: Solid

Analysis Batch: 83675

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.4		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-44994-A-1-B MS

Matrix: Solid

Analysis Batch: 83675

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8130	F1	2530	10170	F1	mg/Kg		81	90 - 110

Lab Sample ID: 880-44994-A-1-C MSD

Matrix: Solid

Analysis Batch: 83675

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8130	F1	2530	10240	F1	mg/Kg		84	90 - 110	1	20

Eurofins Carlsbad

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

GC VOA

Prep Batch: 83651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	5035	
MB 880-83651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6838-1 MS	BH04	Total/NA	Solid	5035	
890-6838-1 MSD	BH04	Total/NA	Solid	5035	

Analysis Batch: 83656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	8021B	83651
MB 880-83651/5-A	Method Blank	Total/NA	Solid	8021B	83651
LCS 880-83651/1-A	Lab Control Sample	Total/NA	Solid	8021B	83651
LCSD 880-83651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83651
890-6838-1 MS	BH04	Total/NA	Solid	8021B	83651
890-6838-1 MSD	BH04	Total/NA	Solid	8021B	83651

Analysis Batch: 83730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	8015NM Prep	
MB 880-83520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44909-A-11-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-44909-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	8015B NM	83520
MB 880-83520/1-A	Method Blank	Total/NA	Solid	8015B NM	83520
LCS 880-83520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83520
LCSD 880-83520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83520
880-44909-A-11-C MS	Matrix Spike	Total/NA	Solid	8015B NM	83520
880-44909-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	83520

Analysis Batch: 83733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Soluble	Solid	DI Leach	
MB 880-83627/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83627/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83627/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 83627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44994-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44994-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 83675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6838-1	BH04	Soluble	Solid	300.0	83627
MB 880-83627/1-A	Method Blank	Soluble	Solid	300.0	83627
LCS 880-83627/2-A	Lab Control Sample	Soluble	Solid	300.0	83627
LCSD 880-83627/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83627
880-44994-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	83627
880-44994-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	83627

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Client Sample ID: BH04
Date Collected: 06/18/24 09:30
Date Received: 06/19/24 08:09

Lab Sample ID: 890-6838-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	83651	06/20/24 08:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83656	06/20/24 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83730	06/20/24 12:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			83733	06/20/24 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	83520	06/18/24 21:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83641	06/20/24 11:59	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	83627	06/19/24 16:52	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	83675	06/20/24 11:16	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Yates Federal #1

Job ID: 890-6838-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6838-1	BH04	Solid	06/18/24 09:30	06/19/24 08:09	59

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

Chain of Custody

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



Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager: Anna Byers		Bill to: (if different) Jim Raley	
Company Name: Etech Environmental & Safety Solutions, Inc.		Company Name: WPX Energy Permian, LLC.	
Address: 1300 W County Rd 100		Address: 5315 Buena Vista Dr.	
City, State ZIP: Midland, Texas 79711		City, State ZIP: Carlsbad, NM, 88220	
Phone: 432-305-6415		Email: Devon-team@etechenv.com	

Project Name: Yates Federal #1		Turn Around	
Project Number: 18154		☐ Routine ☒ Rush	
Project Location: Eddy County, New Mexico		Due Date: 24H TAT	
Sampler's Name: Eddyte Konan		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No	
Samples Received Intact: Yes No		Thermometer ID: TUN002		Yes No	
Cooler Custody Seals: Yes No		Correction Factor: -0.2		Yes No	
Sample Custody Seals: Yes No		Temperature Reading: 2.2		Yes No	
Total Containers: 20		Corrected Temperature: 20		Yes No	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
BH04	s	6/18/2024	9:30	59'	Grab/	1	BTX - EPA METHOD 8021B TPH - EPA METHOD 8015M/D CHLORIDE - EPA METHOD 300.0			None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Incident ID: nAB1428734057 nRM2011138650 CC: 21181897										

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471			

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	Anna Byers	8:19 6/19/24	<i>[Signature]</i>	Byers	6/19/24

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6838-1

SDG Number: Eddy County NM

Login Number: 6838

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 890-6838-1

SDG Number: Eddy County NM

Login Number: 6838

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 06/20/24 08:31 AM

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

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402277

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402277
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:25
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E402277-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 4'	E402277-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:25:36AM

BH05 0.5'

E402277-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409060
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409060
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	86.2 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409061
Chloride	1740	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:25:36AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH05 4'

E402277-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.1 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409061	
Chloride	1370	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409060-BLK1) Prepared: 02/29/24 Analyzed: 02/29/24

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	7.14		8.00		89.2	70-130			

LCS (2409060-BS1) Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	3.92	0.0250	5.00		78.4	70-130			
Ethylbenzene	3.97	0.0250	5.00		79.4	70-130			
Toluene	3.94	0.0250	5.00		78.9	70-130			
o-Xylene	3.91	0.0250	5.00		78.2	70-130			
p,m-Xylene	8.03	0.0500	10.0		80.3	70-130			
Total Xylenes	11.9	0.0250	15.0		79.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2409060-MS1) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.19	0.0250	5.00	ND	83.8	54-133			
Ethylbenzene	4.26	0.0250	5.00	ND	85.2	61-133			
Toluene	4.23	0.0250	5.00	ND	84.6	61-130			
o-Xylene	4.20	0.0250	5.00	ND	83.9	63-131			
p,m-Xylene	8.61	0.0500	10.0	ND	86.1	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.4	70-130			

Matrix Spike Dup (2409060-MSD1) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.77	0.0250	5.00	ND	95.3	54-133	12.9	20	
Ethylbenzene	4.85	0.0250	5.00	ND	96.9	61-133	12.9	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	12.9	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	13.5	20	
p,m-Xylene	9.78	0.0500	10.0	ND	97.8	63-131	12.7	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	13.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409060-BLK1) Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS (2409060-BS2) Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike (2409060-MS2) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2409060-MSD2) Source: E402281-02 Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	10.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409061-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409061-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2409061-MS1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1680	100	250	1370	120	80-120			
Matrix Spike Dup (2409061-MSD1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	2070	100	250	1370	280	80-120	21.2	20	M4, R3

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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:25

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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.





Envirotech Analytical Laboratory

Printed: 2/29/2024 9:29:47AM

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
 Phone: (539) 573-4018
 Email: devon-team@ctechnv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:29
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402277
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402278

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/6/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402278
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 03/06/24 13:01
	Project Number:	01058-0007	
	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 10'	E402278-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 15'	E402278-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 20'	E402278-03A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 25'	E402278-04A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 10'

E402278-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	104 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.6 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	104 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.6 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane	104 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	2120	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/6/2024 1:01:38PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH05 15'

E402278-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		86.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		86.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410036	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		104 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	1410	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/6/2024 1:01:38PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH05 20'

E402278-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2409068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410036	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		103 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	597	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 25'

E402278-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		105 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	671	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410036-BLK1) Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			

LCS (2410036-BS1) Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2410036-MS1) Source: E403011-02 Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	312	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			

Matrix Spike Dup (2410036-MSD1) Source: E403011-02 Prepared: 03/05/24 Analyzed: 03/05/24

Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132	2.00	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 13:01

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT			EPA Program					
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E402278		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719					Email: jim.raley@devn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan															Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
11:50	02.27.24	S	1	BH05	1	10'							X						
12:00	02.27.24	S	1	BH05	2	15'							X						
12:10	02.26.24	S	1	BH05	3	20'							X						
12:20	02.26.24	S	1	BH05	4	25'							X						
02/28/24																			
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	Lab Use Only											
		02/28/24	10:30			2-28-24	1030	Received on ice: ☒ Y / ☐ N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
		2-28-24	1710			2-28	1719												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
		2-29	2405			2-29-24	0530	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 2/29/2024 9:40:30AM

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:	02/29/24 05:30	Work Order ID:	E402278
Phone:	(539) 573-4018	Date Logged In:	02/28/24 15:31	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/06/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402279

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402279
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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

Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 30'	E402279-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:26:51AM

BH05 30'

E402279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		101 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		101 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane		84.5 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	576	40.0	2	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1) Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1) Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1) Source: E402267-02 Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1) Source: E402267-02 Prepared: 03/01/24 Analyzed: 03/01/24

Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:26

- 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.





Envirotech Analytical Laboratory

Printed: 2/29/2024 8:54:20AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:33
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402279
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e, 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402280

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402280
Date Received: 2/29/2024 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 35'	E402280-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:27:49AM

BH05 35'

E402280-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	102 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	102 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.5 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	392	20.0	1	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

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 (2409068-BLK1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:27

- 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.



Client: WPX Energy Permian, LLC. Project: Yates Federal #1 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechenv.com			Bill To			Lab Use Only				TAT			EPA Program																				
			Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dvn.com WO: 21181897 Incident ID: nAB1428734057, nRM2011138650			Lab WO# E402280		Job Number 0105B-0007		1D	2D	3D	Standard 5 day TAT	CWA	SDWA																		
						Analysis and Method								State																			
						Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEx by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	NM	CO	UT	AZ	TX															
														X																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks																			
12:40	02.27.24	S	1	BH05	1	35'						X																					
02/28/24																																	
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.												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: 02/28/24		Time: 10:30		Received by: (Signature)																							
Relinquished by: (Signature)						Date: 2-28-24		Time: 1710		Received by: (Signature)																							
Relinquished by: (Signature)						Date: 2-29		Time: 2405		Received by: (Signature)																							
												Lab Use Only																					
												Received on ice: ☒ Y / N																					
												T1 _____ T2 _____ T3 _____																					
												AVG Temp °C <u> 4 </u>																					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																	

Envirotech Analytical Laboratory

Printed: 2/29/2024 9:46:26AM

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:	02/29/24 07:00	Work Order ID:	E402280
Phone:	(539) 573-4018	Date Logged In:	02/28/24 15:34	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/06/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E404224

Job Number: 01058-0007

Received: 4/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 4/26/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E404224
Date Received: 4/22/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/22/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 04/26/24 12:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E404224-01A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH01 1'	E404224-02A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH02 0.5'	E404224-03A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH02 1'	E404224-04A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH03 0.5'	E404224-05A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH03 1'	E404224-06A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH04 0.5'	E404224-07A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH04 1'	E404224-08A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH05 0.5'	E404224-09A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH05 1'	E404224-10A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/26/2024 12:08:34PM

PH01 0.5'

E404224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417031
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2417030
Chloride	121	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/26/2024 12:08:34PM

PH01 1'

E404224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.4 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417031
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	83.6 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2417030
Chloride	68.1	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH02 0.5'

E404224-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.1 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
Surrogate: n-Nonane	84.1 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	131	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/26/2024 12:08:34PM

PH02 1'

E404224-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	83.8 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	26.6	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH03 0.5'

E404224-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.8 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	114	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH03 1'

E404224-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	80.4 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	156	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH04 0.5'

E404224-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	0.0566	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	77.5 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	35.4	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	65.6	50.0	1	04/23/24	04/24/24	
Surrogate: n-Nonane	52.0 %	50-200		04/23/24	04/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	203	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH04 1'
E404224-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	0.0899	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	47.9	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	77.8	50.0	1	04/23/24	04/24/24	
<i>Surrogate: n-Nonane</i>						
	65.5 %	50-200		04/23/24	04/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	237	40.0	2	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH05 0.5'

E404224-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	78.2 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	53.9	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/26/2024 12:08:34PM

PH05 1'

E404224-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	78.5 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417031
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	81.8 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2417030
Chloride	30.7	20.0	1	04/23/24	04/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417024-BLK1) Prepared: 04/22/24 Analyzed: 04/23/24

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 7.46 8.00 93.2 70-130

LCS (2417024-BS1) Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	4.57	0.0250	5.00		91.3	70-130			
Ethylbenzene	4.44	0.0250	5.00		88.8	70-130			
Toluene	4.56	0.0250	5.00		91.1	70-130			
o-Xylene	4.49	0.0250	5.00		89.8	70-130			
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130			
Total Xylenes	13.6	0.0250	15.0		90.5	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.50 8.00 93.8 70-130

Matrix Spike (2417024-MS1) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	5.58	0.0250	5.00	ND	112	54-133			
Ethylbenzene	5.40	0.0250	5.00	ND	108	61-133			
Toluene	5.61	0.0250	5.00	0.0899	110	61-130			
o-Xylene	5.47	0.0250	5.00	ND	109	63-131			
p,m-Xylene	11.0	0.0500	10.0	ND	110	63-131			
Total Xylenes	16.5	0.0250	15.0	ND	110	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.41 8.00 92.7 70-130

Matrix Spike Dup (2417024-MSD1) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	5.49	0.0250	5.00	ND	110	54-133	1.69	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	1.57	20	
Toluene	5.52	0.0250	5.00	0.0899	109	61-130	1.73	20	
o-Xylene	5.38	0.0250	5.00	ND	108	63-131	1.67	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	1.39	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	1.48	20	

Surrogate: 4-Bromochlorobenzene-PID 7.34 8.00 91.8 70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417024-BLK1) Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			

LCS (2417024-BS2) Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2417024-MS2) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			

Matrix Spike Dup (2417024-MSD2) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.3	70-130	5.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417031-BLK1) Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

LCS (2417031-BS1) Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2417031-MS1) Source: E404224-04 Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

Matrix Spike Dup (2417031-MSD1) Source: E404224-04 Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	38-132	5.81	20	
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

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 (2417030-BLK1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	ND	20.0							
LCS (2417030-BS1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2417030-MS1)					Source: E404225-23		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	385	20.0	250	122	105	80-120			
Matrix Spike Dup (2417030-MSD1)					Source: E404225-23		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	394	20.0	250	122	109	80-120	2.42	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/26/24 12:08

- 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.



Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program	
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 404224		01058-0007					5 day TAT		
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											
Phone: 832-541-7719					Email: jim.raley@dvn.com										State	
Email: Devon-team@etechnv.com					WO: 21181897										NM CO UT AZ TX	
Incident ID: nAB1428734057, nRM2011138650													x			
Collected by: Edyte Konan													Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX			
11:00	04.18.24	S	1	PH01	1	0.5'						X				
11:10	04.18.24	S	1	PH01	2	1'						X				
11:20	04.18.24	S	1	PH02	3	0.5'						X				
11:30	04.18.24	S	1	PH02	4	1'						X				
11:40	04.18.24	S	1	PH03	5	0.5'						X				
11:50	04.18.24	S	1	PH03	6	1'						X				
12:00	04.18.24	S	1	PH04	7	0.5'						X				
12:10	04.18.24	S	1	PH04	8	1'						X				
12:20	04.18.24	S	1	PH05	9	0.5'						X				
12:30	04.18.24	S	1	PH05	10	1'						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.										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.						
Sampled by: EK																
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only				
[Signature]		04/15/24		7:30		Michelle Gonzales		4-19-24		0700		Received on ice: 0/ N				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3				
Michelle Gonzales		4-19-24		1700		[Signature]		4-19-24		1800						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C				
[Signature]		4-19-24		2400		[Signature]		4/22/24		0830		4				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



Envirotech Analytical Laboratory

Printed: 4/22/2024 12:37:23PM

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:	04/22/24 08:30	Work Order ID:	E404224
Phone:	(539) 573-4018	Date Logged In:	04/22/24 09:30	Logged In By:	Angelina Pineda
Email:	devon-team@etechenv.com	Due Date:	04/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E405019

Job Number: 01058-0007

Received: 5/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 5/6/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E405019
Date Received: 5/3/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/3/2024 5:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 05/06/24 15:16
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 0.5'	E405019-01A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
PH06 1'	E405019-02A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/6/2024 3:16:21PM

PH06 0.5'

E405019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.0 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418120	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2418123	
Chloride	ND	20.0	1	05/03/24	05/03/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 5/6/2024 3:16:21PM
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PH06 1'

E405019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418120	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		05/03/24	05/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2418123	
Chloride	ND	20.0	1	05/03/24	05/03/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418115-BLK1) Prepared: 05/03/24 Analyzed: 05/03/24

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: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

LCS (2418115-BS1) Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.44	0.0250	5.00		88.8	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.3	70-130			
Toluene	4.76	0.0250	5.00		95.3	70-130			
o-Xylene	4.87	0.0250	5.00		97.4	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			

Matrix Spike (2418115-MS1) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.35	0.0250	5.00	ND	87.0	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.8	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.6	70-130			

Matrix Spike Dup (2418115-MSD1) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.42	0.0250	5.00	ND	88.3	54-133	1.58	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133	2.30	20	
Toluene	4.81	0.0250	5.00	ND	96.3	61-130	2.16	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	2.25	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	2.31	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	2.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418115-BLK1) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

LCS (2418115-BS2) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2418115-MS2) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2418115-MSD2) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418120-BLK1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			

LCS (2418120-BS1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike (2418120-MS1)					Source: E405020-03		Prepared: 05/03/24 Analyzed: 05/03/24		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike Dup (2418120-MSD1)					Source: E405020-03		Prepared: 05/03/24 Analyzed: 05/03/24		
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132	1.26	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418123-BLK1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Chloride	ND	20.0							
LCS (2418123-BS1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2418123-MS1)					Source: E405020-02		Prepared: 05/03/24 Analyzed: 05/03/24		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2418123-MSD1)					Source: E405020-02		Prepared: 05/03/24 Analyzed: 05/03/24		
Chloride	257	20.0	250	ND	103	80-120	0.187	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/06/24 15:16

- 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.



Refused to Imaging: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program																
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA															
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 405019		61058-0007					24H TAT																	
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		Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDIOC TX	State																
Phone: 832-541-7719					Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX												
mail: Devon-team@etechnv.com					WO: 21181897																										
					Incident ID: nAB1428734057, nRM2011138650																										
Collected by: Edyte Konan																															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks																
11:40	05.01.24	S	1	PH04A	1	0.5'							X																		
11:50	05.01.24	S	1	PH04A	2	1'							X																		
05/02/2024																															
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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																							
[Signature]		05/02/24	8:00	Michelle Gonzales		5-2-24	0800	Received on ice: ☒ Y ☐ N																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3																							
Michelle Gonzales		5-2-24	1600	[Signature]		5-2-24	1730																								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C																							
Andrew [Signature]		5-2-24	2400	Kuplyk R Hall		5-3-24	0500	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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Envirotech Analytical Laboratory

Printed: 5/6/2024 2:41:32PM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 05/03/24 05:00
 Date Logged In: 05/02/24 15:18
 Due Date: 05/06/24 17:00 (1 day TAT)

Work Order ID: E405019
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

Samples : PH04A 0.5 & PH04A 1 changed to PH06 0.5 & PH06 1, per Erick H. per email. Green copy made with corrections

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

Date



envirotech Inc.



envirotech

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406137

Job Number: 01058-0007

Received: 6/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/19/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406137
Date Received: 6/14/2024 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/19/24 15:24
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 - 4'	E406137-01A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 10'	E406137-02A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 15'	E406137-03A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 20'	E406137-04A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 25'	E406137-05A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 30'	E406137-06A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 35'	E406137-07A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 40'	E406137-08A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 45'	E406137-09A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 50'	E406137-10A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH06 - 55'	E406137-11A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:24:28PM

BH06 - 4'

E406137-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.6 %	70-130	06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	497	100	5	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:24:28PM

BH06 - 10'

E406137-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	560	100	5	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:24:28PM
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BH06 - 15'
E406137-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
Surrogate: n-Nonane	114 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	551	40.0	2	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:24:28PM

BH06 - 20'

E406137-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	522	20.0	1	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:24:28PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH06 - 25'
E406137-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	588	20.0	1	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:24:28PM

BH06 - 30'

E406137-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	111 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	1010	20.0	1	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:24:28PM
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BH06 - 35'
E406137-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	994	200	10	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:24:28PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH06 - 40'
E406137-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
Surrogate: n-Nonane	117 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	1200	20.0	1	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:24:28PM
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BH06 - 45'
E406137-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	1160	20.0	1	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:24:28PM
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BH06 - 50'
E406137-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	533	200	10	06/17/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:24:28PM
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BH06 - 55'
E406137-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
Surrogate: n-Nonane	113 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	425	200	10	06/17/24	06/18/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:24:28PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425002-BLK1)

Prepared: 06/17/24 Analyzed: 06/18/24

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	7.50		8.00		93.7	70-130			

LCS (2425002-BS1)

Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.97	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.81	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2425002-MS1)

Source: E406137-04

Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.95	0.0250	5.00	ND	99.1	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.7	63-131			
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2425002-MSD1)

Source: E406137-04

Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.95	0.0250	5.00	ND	98.9	54-133	0.161	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	61-133	0.205	20	
Toluene	4.90	0.0250	5.00	ND	98.0	61-130	0.0817	20	
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131	0.487	20	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	0.317	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	0.373	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:24:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425002-BLK1) Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			

LCS (2425002-BS2) Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

Matrix Spike (2425002-MS2) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

Matrix Spike Dup (2425002-MSD2) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	4.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.90		8.00		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:24:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425005-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.4		50.0		129	50-200			

LCS (2425005-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

Matrix Spike (2425005-MS1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2425005-MSD1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	305	25.0	250	ND	122	38-132	0.699	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:24:28PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425010-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	ND	20.0							
LCS (2425010-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2425010-MS1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	1560	100	250	1600	NR	80-120			M4
Matrix Spike Dup (2425010-MSD1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	1630	100	250	1600	13.8	80-120	4.25	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/19/24 15:24

- 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.



Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT				EPA Program											
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406137		01058-0067					5 day TAT										
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																			
Phone: 432-305-6415					Email: jim.raley@dv.com																			
Email: Devon-team@etechnv.com					WO: 21181897																			
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650								State											
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	BGDOC NM	GDOC TX	NM	CO	UT	AZ	TX	Remarks					
12:00	06.12.24	S	1	PH06	1	4'						X												
12:10	06.12.24	S	1	PH06	2	10'						X												
12:20	06.12.24	S	1	PH06	3	15'						X												
12:30	06.12.24	S	1	PH06	4	20'						X												
12:40	06.12.24	S	1	PH06	5	25'						X												
12:50	06.12.24	S	1	PH06	6	30'						X												
13:00	06.12.24	S	1	PH06	7	35'						X												
13:10	06.12.24	S	1	PH06	8	40'						X												
13:20	06.12.24	S	1	PH06	9	45'						X												
13:30	06.12.24	S	1	PH06	10	50'						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.										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 5 °C on subsequent days.														
Relinquished by: (Signature) <i>[Signature]</i>					Date 06/13/24		Time 06:00		Received by: (Signature) <i>Michelle Gonzales</i>					Date 6-13-24		Time 1530		Lab Use Only						
Relinquished by: (Signature) <i>Michelle Gonzales</i>					Date 6-13-24		Time 1600		Received by: (Signature) <i>J.M.</i>					Date 6-13-24		Time 1645		Received on ice: ☒ Y ☐ N						
Relinquished by: (Signature) <i>J.M.</i>					Date 6-13-24		Time 2245		Received by: (Signature) <i>Thuyphong R. HELL</i>					Date 6-14-24		Time 0700		T1 T2 T3						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										AVG Temp °C 4				
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.																								



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT				EPA Program						
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406137		01058-0007					5 day TAT					
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		Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 432-305-6415					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
13:40	06.12.24	S	1	PH06	11	55'							X						
06/13/2024																			
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																			
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>Michelle Gonzales</i>						Lab Use Only							
Date: 06/13/24						Date: 6-13-24						Received on ice: <i>01</i> N							
Time: 06:00						Time: 1530													
Relinquished by: (Signature) <i>Michelle Gonzales</i>						Received by: (Signature) <i>C.M.</i>						T1							
Date: 6-13-24						Date: 6-13-24						T2							
Time: 1600						Time: 1645						T3							
Relinquished by: (Signature) <i>C.M.</i>						Received by: (Signature) <i>Kayla R Hall</i>						AVG Temp °C <i>4</i>							
Date: 6-13-24						Date: 6-14-24													
Time: 2245						Time: 0700													
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: 6/17/2024 2:24:49PM

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:	06/14/24 07:00	Work Order ID:	E406137
Phone:	(575) 200-6754	Date Logged In:	06/14/24 16:25	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	06/19/24 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 406137		01058-0047					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897														
Incident ID: nA81428734057, nRM2011138650																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
12:00	06.12.24	S	1	PH06 BH06	1	4'						X		Name changes				
12:10	06.12.24	S	1	PH06 BH06	2	10'						X		per E. Herrera				
12:20	06.12.24	S	1	PH06 BH06	3	15'						X		6/19/24 RAS				
12:30	06.12.24	S	1	PH06 BH06	4	20'						X						
12:40	06.12.24	S	1	PH06 BH06	5	25'						X						
12:50	06.12.24	S	1	PH06 BH06	6	30'						X						
13:00	06.12.24	S	1	PH06 BH06	7	35'						X						
13:10	06.12.24	S	1	PH06 BH06	8	40'						X						
13:20	06.12.24	S	1	PH06 BH06	9	45'						X						
13:30	06.12.24	S	1	PH06 BH06	10	50'						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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<i>[Signature]</i>		06/13/24	06:00	Michelle Gonzales		6-13-24	1530	Received on ice: Y / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Michelle Gonzales		6-13-24	1600	J.A.		6-13-24	1645											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
<i>J.A.</i>		6-13-24	2245	Michelle R. Hall		6-14-24	0700	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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Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E406137		01058-0007					5 day TAT					
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				Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dmv.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: 21181897																
				Incident ID: nAB1428734057, nRM2011138650																
Collected by: Edyte Konan																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks														
13:40	06.12.24	S	1	PH06-BH06	11	Name changes per E. Herrera 6/19/24 - RAS														
06/13/2024																				
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.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
Michelle Gonzales		06/13/24	06:00	Michelle Gonzales		6-13-24	1530	Received on ice: Y/N												
Michelle Gonzales		6-13-24	1600	J.M.		6-13-24	1645	T1 T2 T3												
J.M.		6-13-24	2245	Kuppa R Hall		6-14-24	0700	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.																				

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406138

Job Number: 01058-0007

Received: 6/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/19/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406138
Date Received: 6/14/2024 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Laboratory Director
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Cell: 775-287-1762
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 06/19/24 15:41
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 - 4'	E406138-01A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07 - 10'	E406138-02A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07 - 15'	E406138-03A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07- 20'	E406138-04A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07 - 25'	E406138-05A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07 - 30'	E406138-06A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH07 - 35'	E406138-07A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:41:29PM

BH07 - 4'

E406138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.1 %	70-130	06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		107 %	70-130	06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	06/17/24	06/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	266	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:41:29PM

BH07 - 10'

E406138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	ND	100	5	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:41:29PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH07 - 15'
E406138-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	519	200	10	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:41:29PM

BH07- 20'

E406138-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425002
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	500	200	10	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:41:29PM
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BH07 - 25'
E406138-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	529	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:41:29PM
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BH07 - 30'
E406138-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	776	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:41:29PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH07 - 35'
E406138-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	666	40.0	2	06/17/24	06/17/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:41:29PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425002-BLK1) Prepared: 06/17/24 Analyzed: 06/18/24

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	7.50		8.00		93.7	70-130			

LCS (2425002-BS1) Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.97	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.81	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2425002-MS1) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.95	0.0250	5.00	ND	99.1	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.7	63-131			
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2425002-MSD1) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.95	0.0250	5.00	ND	98.9	54-133	0.161	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	61-133	0.205	20	
Toluene	4.90	0.0250	5.00	ND	98.0	61-130	0.0817	20	
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131	0.487	20	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	0.317	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	0.373	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:41:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425002-BLK1) Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			

LCS (2425002-BS2) Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

Matrix Spike (2425002-MS2) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

Matrix Spike Dup (2425002-MSD2) Source: E406137-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	4.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.90		8.00		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:41:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2425007-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
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 (2425007-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike (2425007-MS1)					Source: E406138-03		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	56.7		50.0		113	50-200			

Matrix Spike Dup (2425007-MSD1)					Source: E406138-03		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132	3.25	20	
Surrogate: n-Nonane	57.9		50.0		116	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:41:29PM

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 (2425011-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	ND	20.0							
LCS (2425011-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2425011-MS1)					Source: E406138-05		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	805	40.0	250	529	111	80-120			
Matrix Spike Dup (2425011-MSD1)					Source: E406138-05		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	829	40.0	250	529	120	80-120	2.94	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/19/24 15:41

- 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: 8/14/2025 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406138		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
8:30	06.12.24	S	1	PH02	1	4'							X						
8:40	06.12.24	S	1	PH02	2	10'							X						
8:50	06.12.24	S	1	PH02	3	15'							X						
9:00	06.12.24	S	1	PH02	4	20'							X						
9:10	06.12.24	S	1	PH02	5	25'							X						
9:20	06.12.24	S	1	PH02	6	30'							X						
9:30	06.12.24	S	1	PH02	7	35'							X						
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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
[Signature]		06/13/2024		6:00		Michelle Gonzales		6-13-24		1530		Received on ice: Y / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Michelle Gonzales		6-14-24		1600		[Signature]		6-13-24		1645									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C							
[Signature]		6-13-24		2245		Katherine R. Hall		6-14-24		0700		4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 6/17/2024 2:25:01PM

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:	06/14/24 07:00	Work Order ID:	E406138
Phone:	(575) 200-6754	Date Logged In:	06/14/24 16:29	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	06/19/24 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT				EPA Program			
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406138		01058-0007					5 day TAT		
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	
Phone: 432-305-6415					Email: jim.raley@dvn.com										NM CO UT AZ TX	
Email: Devon-team@etechnv.com					WO: 21181897											
					Incident ID: nAB1428734057, nRM2011138650											
Collected by: Edyte Konan																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks		
8:30	06.12.24	S	1	PH02 BH07	1	4'						X		Name changes		
8:40	06.12.24	S	1	PH02 BH07	2	10'						X		per E Herrera		
8:50	06.12.24	S	1	PH02 BH07	3	15'						X		6/14/24 RAY		
9:00	06.12.24	S	1	PH02 BH07	4	20'						X				
9:10	06.12.24	S	1	PH02 BH07	5	25'						X				
9:20	06.12.24	S	1	PH02 BH07	6	30'						X				
9:30	06.12.24	S	1	PH02 BH07	7	35'						X				
06/13/24																

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	Lab Use Only	
<i>[Signature]</i>	06/13/2024	6:00	<i>Michelle Gonzales</i>	6-13-24	1530	Received on ice: Y / N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
<i>Michelle Gonzales</i>	6-14-24	1600	<i>A.M.</i>	6-13-24	1645		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
<i>A.M.</i>	6-13-24	2245	<i>Keypoke R. Hall</i>	6-14-24	0700	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406136

Job Number: 01058-0007

Received: 6/14/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/19/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406136
Date Received: 6/14/2024 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 06/19/24 15:55
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08-4'	E406136-01A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-10'	E406136-02A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-15'	E406136-03A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-20'	E406136-04A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-25'	E406136-05A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-30'	E406136-06A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.
BH08-35'	E406136-07A	Soil	06/12/24	06/14/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:55:28PM

BH08-4'

E406136-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.4 %</i>	<i>70-130</i>		<i>06/17/24</i>	<i>06/18/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.8 %</i>	<i>70-130</i>		<i>06/17/24</i>	<i>06/18/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>	<i>115 %</i>	<i>50-200</i>		<i>06/17/24</i>	<i>06/17/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	ND	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 3:55:28PM
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BH08-10'

E406136-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	315	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:55:28PM

BH08-15'

E406136-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	544	100	5	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:55:28PM

BH08-20'

E406136-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	874	100	5	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:55:28PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH08-25'

E406136-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
Surrogate: n-Nonane	113 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	926	40.0	2	06/17/24	06/17/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 3:55:28PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH08-30'

E406136-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425005	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425010	
Chloride	1600	100	5	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 3:55:28PM

BH08-35'

E406136-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425005
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425010
Chloride	399	20.0	1	06/17/24	06/18/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:55:28PM

Volatile Organics by EPA 8021B

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 (2425009-BLK1) Prepared: 06/17/24 Analyzed: 06/17/24

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: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

LCS (2425009-BS1) Prepared: 06/17/24 Analyzed: 06/17/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.5	70-130			
Toluene	4.69	0.0250	5.00		93.7	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2425009-MS1) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.90	0.0250	5.00	ND	98.0	54-133			
Ethylbenzene	4.73	0.0250	5.00	ND	94.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131			
p,m-Xylene	9.60	0.0500	10.0	ND	96.0	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

Matrix Spike Dup (2425009-MSD1) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.80	0.0250	5.00	ND	95.9	54-133	2.13	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.47	20	
Toluene	4.73	0.0250	5.00	ND	94.6	61-130	2.34	20	
o-Xylene	4.62	0.0250	5.00	ND	92.3	63-131	2.06	20	
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	63-131	2.60	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131	2.42	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:55:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425009-BLK1) Prepared: 06/17/24 Analyzed: 06/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

LCS (2425009-BS2) Prepared: 06/17/24 Analyzed: 06/17/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

Matrix Spike (2425009-MS2) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2425009-MSD2) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130	0.141	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:55:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425005-BLK1) Prepared: 06/17/24 Analyzed: 06/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.4		50.0		129	50-200			

LCS (2425005-BS1) Prepared: 06/17/24 Analyzed: 06/17/24

Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

Matrix Spike (2425005-MS1) Source: E406136-06 Prepared: 06/17/24 Analyzed: 06/17/24

Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2425005-MSD1) Source: E406136-06 Prepared: 06/17/24 Analyzed: 06/17/24

Diesel Range Organics (C10-C28)	305	25.0	250	ND	122	38-132	0.699	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 3:55:28PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425010-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	ND	20.0							
LCS (2425010-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2425010-MS1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	1560	100	250	1600	NR	80-120			M4
Matrix Spike Dup (2425010-MSD1)					Source: E406136-06		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	1630	100	250	1600	13.8	80-120	4.25	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/19/24 15:55

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only						TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406136		01058-0007							5 day TAT				
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 432-305-6415				Email: jim.raley@divn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com				WO: 21181897															
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
10:40	06.12.24	S	1	PH01	1	4'						X							
10:50	06.12.24	S	1	PH01	2	10'						X							
11:00	06.12.24	S	1	PH01	3	15'						X							
11:10	06.12.24	S	1	PH01	4	20'						X							
11:20	06.12.24	S	1	PH01	5	25'						X							
11:30	06.12.24	S	1	PH01	6	30'						X							
11:40	06.12.24	S	1	PH01	7	35'						X							
06/13/2024																			
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.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		06/13/24	06:00	Michelle Gonzales		6-13-24	1530	Received on ice: Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gonzales		6-13-24	1600	[Signature]		6-13-24	1645												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		6-13-24	2245	Kuyah R Heel		6-14-23	0700	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 6/17/2024 2:24:35PM

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:	06/14/24 07:00	Work Order ID:	E406136
Phone:	(575) 200-6754	Date Logged In:	06/14/24 16:21	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	06/19/24 17:00 (3 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.		Bill To		Lab Use Only		TAT			EPA Program				
Project: Yates Federal #1		Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers		Address: 5315 Buena Vista Dr.		E406136 01059-0007					5 day TAT				
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				
Phone: 432-305-6415		Email: jim.raley@dvn.com							NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com		WO: 21181897											
		Incident ID: nAB1428734057, nRM2011138650											

Collected by: Edyte Konan

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRC/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:40	06.12.24	S	1	PH01 BH08	1	4'						X		Name changes
10:50	06.12.24	S	1	PH01 BH08	2	10'						X		per E. Herrera
11:00	06.12.24	S	1	PH01 BH08	3	15'						X		6/19/24: RAS
11:10	06.12.24	S	1	PH01 BH08	4	20'						X		
11:20	06.12.24	S	1	PH01 BH08	5	25'						X		
11:30	06.12.24	S	1	PH01 BH08	6	30'						X		
11:40	06.12.24	S	1	PH01 BH08	7	35'						X		

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: 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	Lab Use Only
<i>[Signature]</i>	06/13/24	06:00	Michelle Gonzales	6-13-24	1530	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
Michelle Gonzales	6-13-24	1600	<i>[Signature]</i>	6-13-24	1645	T2
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T3
<i>[Signature]</i>	6-13-24	2245	Kayla R Heel	6-14-23	0700	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406139

Job Number: 01058-0007

Received: 6/17/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/19/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406139
Date Received: 6/17/2024 6:00:08AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/17/2024 6:00:08AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/19/24 16:14
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09- 0.5'	E406139-01A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 4'	E406139-02A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 10'	E406139-03A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 15'	E406139-04A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 20'	E406139-05A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 25'	E406139-06A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 30'	E406139-07A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 35'	E406139-08A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 40'	E406139-09A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 45'	E406139-10A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.
BH09- 50'	E406139-11A	Soil	06/13/24	06/17/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 0.5'

E406139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		06/17/24	06/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	ND	100	5	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 4'

E406139-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	760	200	10	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 10'

E406139-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	829	200	10	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 15'

E406139-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	762	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 4:14:12PM
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BH09- 20'

E406139-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	394	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 4:14:12PM
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BH09- 25'

E406139-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	522	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/19/2024 4:14:12PM
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BH09- 30'
E406139-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	500	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 35'

E406139-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	601	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/19/2024 4:14:12PM

BH09- 40'

E406139-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425007
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425011
Chloride	445	20.0	1	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 4:14:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH09- 45'

E406139-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	691	40.0	2	06/17/24	06/17/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/19/2024 4:14:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH09- 50'
E406139-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Benzene	ND	0.0250	1	06/17/24	06/18/24	
Ethylbenzene	ND	0.0250	1	06/17/24	06/18/24	
Toluene	ND	0.0250	1	06/17/24	06/18/24	
o-Xylene	ND	0.0250	1	06/17/24	06/18/24	
p,m-Xylene	ND	0.0500	1	06/17/24	06/18/24	
Total Xylenes	ND	0.0250	1	06/17/24	06/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/24	06/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		06/17/24	06/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425007	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/24	06/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/24	06/18/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/17/24	06/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425011	
Chloride	689	40.0	2	06/17/24	06/17/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 4:14:12PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425009-BLK1)

Prepared: 06/17/24 Analyzed: 06/17/24

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: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

LCS (2425009-BS1)

Prepared: 06/17/24 Analyzed: 06/17/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.5	70-130			
Toluene	4.69	0.0250	5.00		93.7	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2425009-MS1)

Source: E406136-04

Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.90	0.0250	5.00	ND	98.0	54-133			
Ethylbenzene	4.73	0.0250	5.00	ND	94.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131			
p,m-Xylene	9.60	0.0500	10.0	ND	96.0	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

Matrix Spike Dup (2425009-MSD1)

Source: E406136-04

Prepared: 06/17/24 Analyzed: 06/18/24

Benzene	4.80	0.0250	5.00	ND	95.9	54-133	2.13	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.47	20	
Toluene	4.73	0.0250	5.00	ND	94.6	61-130	2.34	20	
o-Xylene	4.62	0.0250	5.00	ND	92.3	63-131	2.06	20	
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	63-131	2.60	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131	2.42	20	
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 4:14:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425009-BLK1) Prepared: 06/17/24 Analyzed: 06/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

LCS (2425009-BS2) Prepared: 06/17/24 Analyzed: 06/17/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

Matrix Spike (2425009-MS2) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2425009-MSD2) Source: E406136-04 Prepared: 06/17/24 Analyzed: 06/18/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130	0.141	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 4:14:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425007-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
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 (2425007-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike (2425007-MS1)					Source: E406138-03		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	56.7		50.0		113	50-200			

Matrix Spike Dup (2425007-MSD1)					Source: E406138-03		Prepared: 06/17/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132	3.25	20	
Surrogate: n-Nonane	57.9		50.0		116	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/19/2024 4:14:12PM

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 (2425011-BLK1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	ND	20.0							
LCS (2425011-BS1)					Prepared: 06/17/24 Analyzed: 06/17/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2425011-MS1)					Source: E406138-05		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	805	40.0	250	529	111	80-120			
Matrix Spike Dup (2425011-MSD1)					Source: E406138-05		Prepared: 06/17/24 Analyzed: 06/17/24		
Chloride	829	40.0	250	529	120	80-120	2.94	20	

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/19/24 16:14

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

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Page 634 of 1755

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT			EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406139		01658-0007					5 day TAT		
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method								RCRA	
City, State, Zip: Odessa, TX, 79765																
Phone: 432-305-6415																
Email: Devon-team@etechnv.com																
Collected by: Edyte Konan					Phone: 575-885-7502										State	
					Email: jim.raley@dvn.com										NM CO UT AZ TX	
					WO: 21181897											
					Incident ID: nAB1428734057, nRM2011138650											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRQ/DRO/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	Remarks		
8:30	06.13.24	S	1	PH07	1	0.5'						X				
8:40	06.13.24	S	1	PH07	2	4'						X				
8:50	06.13.24	S	1	PH07	3	10'						X				
9:00	06.13.24	S	1	PH07	4	15'						X				
9:10	06.13.24	S	1	PH07	5	20'						X				
9:20	06.13.24	S	1	PH07	6	25'						X				
9:30	06.13.24	S	1	PH07	7	30'						X				
9:40	06.13.24	S	1	PH07	8	35'						X				
9:50	06.13.24	S	1	PH07	9	40'						X				
10:00	06.13.24	S	1	PH07	10	45'						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	Lab Use Only								
		06/14/24	06:30	Michelle Gonzales		6-14-24	0630	Received on ice: 0 / N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
Michelle Gonzales		6-14-24	1530	A.M.		6-14-24	1630									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C								
A.M.		6-14-24	2200	Thompson R Heller		6-17-24	0600	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.																

Project Information

Chain of Custody

Page 2 of 2

Client: WPX Energy Permian, LLC.				Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dmn.com WO: 21181897 Incident ID: nAB1428734057, nRM2011138650		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1						Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers						E406139 01058-0007						5 day TAT						
Address: 13000 W County Rd 100						Analysis and Method												
City, State, Zip: Odessa, TX, 79765																		
Phone: 432-305-6415				Depth (ft.) TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM GDOC TX										State				
Email: Devon-team@etechnv.com														NM CO UT AZ TX				
Collected by: Edyte Konan				Remarks														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
10:10	06.13.24	S	1	PH07	11													
06/14/2024																		
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	Lab Use Only										
Signature		06/14/2024	6:30	Michelle Gonzales		6-14-24	0630	Received on ice: Y / N										
Michelle Gonzales		6-14-24	1530	S.M.		6-14-24	1630	T1 T2 T3										
S.M.		6-14-24	2200	Kuyper R Heiler		6-17-24	0600	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: 6/17/2024 2:33:22PM

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:	06/17/24 06:00	Work Order ID:	E406139
Phone:	(575) 200-6754	Date Logged In:	06/14/24 16:35	Logged In By:	Raina Schwanz
Email:	anna@etechnv.vom	Due Date:	06/21/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406139		01158-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897														
Collected by: Edyte Konan				Incident ID: nAB1428734057, nRM2011138650														
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	BGDOC NM	GDGC TX	Remarks				
8:30	06.13.24	S	1	PH07 BH09	1	0.5'						X		Names changed				
8:40	06.13.24	S	1	PH07 BH09	2	4'						X		per E. Herrera				
8:50	06.13.24	S	1	PH07 BH09	3	10'						X		6/14/24 - RAS				
9:00	06.13.24	S	1	PH07 BH09	4	15'						X						
9:10	06.13.24	S	1	PH07 BH09	5	20'						X						
9:20	06.13.24	S	1	PH07 BH09	6	25'						X						
9:30	06.13.24	S	1	PH07 BH09	7	30'						X						
9:40	06.13.24	S	1	PH07 BH09	8	35'						X						
9:50	06.13.24	S	1	PH07 BH09	9	40'						X						
10:00	06.13.24	S	1	PH07 BH09	10	45'						X						
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.										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 5 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Signature		06/14/24	06:30	Michelle Gonzales		6-14-24	0630	Received on ice: Y / N										
Michelle Gonzales		6-14-24	1530	L.M.		6-14-24	1630	T1 T2 T3										
L.M.		6-14-24	2200	Kathryn A. Heller		6-17-24	0600	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.																		



Client: WPX Energy Permian, LLC.	Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.		E466139		01058-0007					5 day TAT					
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		9/DRO/ORO by 8015 8021 8260 8010 300.0 NM TX												
Phone: 432-305-6415	Email: jim.raley@dvn.com														
Mail: Devon-team@etechnv.com	WO: 21181897														
	Incident ID: nAB1428734057, nRM2011138650														
Collected by: Edyte Konan															

[illegible]

Names changed
per E. Herrera
6/19/24. RAS

06/12/2024

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: EX

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) <i>[Signature]</i>	Date 06/14/2024	Time 6:30	Received by: (Signature) Michelle Gonzales	Date 6-14-24	Time 0630
Relinquished by: (Signature) Michelle Gonzales	Date 6-14-24	Time 1530	Received by: (Signature) S.M.	Date 6-14-24	Time 1630
Relinquished by: (Signature) C.M.	Date 6-14-24	Time 2200	Received by: (Signature) Kyrin R. Heel	Date 6-17-24	Time 0600

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

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.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406159

Job Number: 01058-0007

Received: 6/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/21/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406159
Date Received: 6/18/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/18/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 06/21/24 10:45
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 4'	E406159-01A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 10'	E406159-02A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 15'	E406159-03A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 20'	E406159-04A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 25'	E406159-05A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 30'	E406159-06A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.
BH10 35'	E406159-07A	Soil	06/13/24	06/18/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/21/2024 10:45:22AM
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BH10 4'
E406159-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/19/24	
Surrogate: n-Nonane	83.3 %	50-200		06/18/24	06/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	1730	20.0	1	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/21/2024 10:45:22AM
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BH10 10'

E406159-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/19/24	
<i>Surrogate: n-Nonane</i>						
	72.8 %	50-200		06/18/24	06/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	1590	20.0	1	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:45:22AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH10 15'

E406159-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	78.8 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	1480	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:45:22AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH10 20'

E406159-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	94.2 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	76.3 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	1040	20.0	1	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:45:22AM

BH10 25'

E406159-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	73.5 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425044
Chloride	461	20.0	1	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:45:22AM

BH10 30'

E406159-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	78.6 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425044
Chloride	404	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:45:22AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH10 35'

E406159-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	71.6 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	472	200	10	06/18/24	06/18/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:45:22AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425039-BLK1) Prepared: 06/18/24 Analyzed: 06/19/24

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 7.55 8.00 94.3 70-130

LCS (2425039-BS1) Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.47	0.0250	5.00		109	70-130			
Ethylbenzene	5.22	0.0250	5.00		104	70-130			
Toluene	5.44	0.0250	5.00		109	70-130			
o-Xylene	5.34	0.0250	5.00		107	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.63 8.00 95.4 70-130

Matrix Spike (2425039-MS1) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.1	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.91	0.0500	10.0	ND	99.1	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.62 8.00 95.2 70-130

Matrix Spike Dup (2425039-MSD1) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.14	0.0250	5.00	ND	103	54-133	1.86	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	1.79	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	1.71	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	1.72	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.67	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.69	20	

Surrogate: 4-Bromochlorobenzene-PID 7.63 8.00 95.4 70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:45:22AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2425039-BLK1) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		108	70-130			

LCS (2425039-BS2) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			

Matrix Spike (2425039-MS2) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

Matrix Spike Dup (2425039-MSD2) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	2.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.72		8.00		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:45:22AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2425042-BLK1) Prepared: 06/18/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.1	50-200			

LCS (2425042-BS1) Prepared: 06/18/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	45.1		50.0		90.1	50-200			

Matrix Spike (2425042-MS1) Source: E406159-07 Prepared: 06/18/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			

Matrix Spike Dup (2425042-MSD1) Source: E406159-07 Prepared: 06/18/24 Analyzed: 06/19/24

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	1.86	20	
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:45:22AM

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 (2425044-BLK1)					Prepared: 06/18/24 Analyzed: 06/18/24				
Chloride	ND	20.0							
LCS (2425044-BS1)					Prepared: 06/18/24 Analyzed: 06/18/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2425044-MS1)					Source: E406158-03		Prepared: 06/18/24 Analyzed: 06/18/24		
Chloride	325	100	250	ND	130	80-120			M6
Matrix Spike Dup (2425044-MSD1)					Source: E406158-03		Prepared: 06/18/24 Analyzed: 06/18/24		
Chloride	328	100	250	ND	131	80-120	1.19	20	M6

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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/21/24 10:45

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E406159		0658-007							5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/DNO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State						
Phone: 432-305-6415					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WO: 21181897																
Incident ID: nAB1428734057, nRM2011138650																					
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks					
14:00	06.13.24	S	1	PH03	1	4'							X								
14:10	06.13.24	S	1	PH03	2	10'							X								
14:20	06.13.24	S	1	PH03	3	15'							X								
14:30	06.13.24	S	1	PH03	4	20'							X								
14:40	06.13.24	S	1	PH03	5	25'							X								
14:50	06.13.24	S	1	PH03	6	30'							X								
15:00	06.13.24	S	1	PH03	7	35'							X								
06/17/2024																					
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.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
[Signature]		06/17/24	7:00	Michelle Gonzales		6-17-24	0700	Received on ice: Y N													
Michelle Gonzales		6-17-24	1600	Andrew Miller		6-17-24	1730	T1 T2 T3													
Andrew Miller		6-17-24	2315	[Signature]		06-18-24	0800	AVG Temp °C 4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Envirotech Analytical Laboratory

Printed: 6/18/2024 9:49:41AM

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:	06/18/24 08:00	Work Order ID:	E406159
Phone:	(575) 200-6754	Date Logged In:	06/18/24 09:18	Logged In By:	Jessica Liesse
Email:	anna@etechnv.vom	Due Date:	06/24/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 Envirotech: 8/14/2026 5:04:20 PM

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program	
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E406159		Job Number 06058-007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT		
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	
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM CO UT AZ TX	
Email: Devon-team@etechnv.com				WO: 21181897											
				Incident ID: nAB1428734057, nRM2011138650											
Collected by: Edyte Konan															
Sample ID	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/QRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks	
14:00	06.13.24	S	1		1	4'						X		Name changes per E. Herrera 6/19/24-RAS	
14:10	06.13.24	S	1		2	10'						X			
14:20	06.13.24	S	1		3	15'						X			
14:30	06.13.24	S	1		4	20'						X			
14:40	06.13.24	S	1		5	25'						X			
14:50	06.13.24	S	1		6	30'						X			
15:00	06.13.24	S	1		7	35'						X			
0611712024															

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	Lab Use Only
<i>[Signature]</i>	06/17/24	7:00	Michelle Gonzales	6-17-24	0700	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
Michelle Gonzales	6-17-24	1600	Andrew J. 880	6-17-24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
Andrew J. 880	6-17-24	2315	Michelle	06-18-24	0800	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.



Received by: OCD: 3/5/2025 10:27:13 AM

Page 657 of 1755

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406158

Job Number: 01058-0007

Received: 6/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/21/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406158
Date Received: 6/18/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/18/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/21/24 10:46
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 0.5'	E406158-01A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 4'	E406158-02A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 10'	E406158-03A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 15'	E406158-04A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 20'	E406158-05A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 25'	E406158-06A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 30'	E406158-07A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH11 35'	E406158-08A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/21/2024 10:46:48AM
--	---	-----------------------------------

BH11 0.5'

E406158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	102 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	100	5	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:46:48AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH11 4'

E406158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %	70-130	06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>		94.0 %	50-200	06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	60.4	20.0	1	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:46:48AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH11 10'

E406158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	100	5	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:46:48AM

BH11 15'

E406158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:46:48AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH11 20'

E406158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	94.2 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	95.1 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:46:48AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH11 25'

E406158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	99.3 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:46:48AM

BH11 30'

E406158-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425039
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425041
Diesel Range Organics (C10-C28)	32.7	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425044
Chloride	ND	200	10	06/18/24	06/18/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:46:48AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH11 35'

E406158-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425041	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425044	
Chloride	ND	200	10	06/18/24	06/18/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:46:48AM

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 (2425039-BLK1)Prepared: 06/18/24 Analyzed: 06/19/24

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	7.55		8.00		94.3	70-130			

LCS (2425039-BS1)Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.47	0.0250	5.00		109	70-130			
Ethylbenzene	5.22	0.0250	5.00		104	70-130			
Toluene	5.44	0.0250	5.00		109	70-130			
o-Xylene	5.34	0.0250	5.00		107	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike (2425039-MS1)Source: E406158-06Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.1	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.91	0.0500	10.0	ND	99.1	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2425039-MSD1)Source: E406158-06Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	5.14	0.0250	5.00	ND	103	54-133	1.86	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	1.79	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	1.71	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	1.72	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	1.67	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.69	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:46:48AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425039-BLK1) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		108	70-130			

LCS (2425039-BS2) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			

Matrix Spike (2425039-MS2) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

Matrix Spike Dup (2425039-MSD2) Source: E406158-06 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	2.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.72		8.00		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:46:48AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425041-BLK1)					Prepared: 06/18/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS (2425041-BS1)					Prepared: 06/18/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2425041-MS1)					Source: E406157-01		Prepared: 06/18/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike Dup (2425041-MSD1)					Source: E406157-01		Prepared: 06/18/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	8.99	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:46:48AM

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 (2425044-BLK1)					Prepared: 06/18/24 Analyzed: 06/18/24				
Chloride	ND	20.0							
LCS (2425044-BS1)					Prepared: 06/18/24 Analyzed: 06/18/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2425044-MS1)					Source: E406158-03		Prepared: 06/18/24 Analyzed: 06/18/24		
Chloride	325	100	250	ND	130	80-120			M6
Matrix Spike Dup (2425044-MSD1)					Source: E406158-03		Prepared: 06/18/24 Analyzed: 06/18/24		
Chloride	328	100	250	ND	131	80-120	1.19	20	M6

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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/21/24 10:46

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- 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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT			EPA Program								
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 406158	01058-000				5 day TAT								
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State					
Phone: 432-305-6415					Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21181897															
Incident ID: nAB1428734057, nRM2011138650																				
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	BGDOC NM	GDGC TX	Remarks						
8:00	06.14.24	S	1	PH08	1	0.5'						X								
8:10	06.14.24	S	1	PH08	2	4'						X								
8:20	06.14.24	S	1	PH08	3	10'						X								
8:30	06.14.24	S	1	PH08	4	15'						X								
8:40	06.14.24	S	1	PH08	5	20'						X								
8:50	06.14.24	S	1	PH08	6	25'						X								
9:00	06.14.24	S	1	PH08	7	30'						X								
9:10	06.14.24	S	1	PH08	8	35'						X								
06/17/2024																				
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.										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) <i>[Signature]</i> Date 06/17/24 Time 7:00										Received by: (Signature) <i>Michelle Gonzales</i> Date 6-17-24 Time 0700										
Relinquished by: (Signature) <i>Michelle Gonzales</i> Date 6-17-24 Time 1600										Received by: (Signature) <i>Andrew H880</i> Date 6-17-24 Time 2315										
Relinquished by: (Signature) <i>Andrew H880</i> Date 6-17-24 Time 2315										Received by: (Signature) <i>Threse</i> Date 06/18/24 Time 0800										
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: 6/18/2024 9:40:50AM

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:	06/18/24 08:00	Work Order ID:	E406158
Phone:	(575) 200-6754	Date Logged In:	06/18/24 09:14	Logged In By:	Jessica Liesse
Email:	anna@etechnv.vom	Due Date:	06/24/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program				
Product: Yates Federal #1				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E 400158		010538-003					5 day TAT					
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				Depth (ft.)	TPH GAO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX GDOC	State				
Phone: 432-305-6415				Email: jim.raley@dmv.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897																
Incident ID: nAB1428734057, nRM2011138650																				
Collected by: Edyte Konan																				
Sample ID	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GAO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX GDOC	Remarks						
0	06.14.24	S	1		PH08 BH11	1	0.5'					X		Name changes						
8:10	06.14.24	S	1		PH08 BH11	2	4'					X		per E. Herrera						
8:20	06.14.24	S	1		PH08 BH11	3	10'					X		6/19/24. RAS						
8:30	06.14.24	S	1		PH08 BH11	4	15'					X								
8:40	06.14.24	S	1		PH08 BH11	5	20'					X								
8:50	06.14.24	S	1		PH08 BH11	6	25'					X								
9:00	06.14.24	S	1		PH08 BH11	7	30'					X								
9:10	06.14.24	S	1		PH08 BH11	8	35'					X								
06/17/2024																				
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.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
		06/17/24		7:00				6-17-24		0700		Received on ice: Y / N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
		6-17-24		1600				6-17-24		2315										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C								
		6-17-24		2315				06/18/24		0800		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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406160

Job Number: 01058-0007

Received: 6/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/21/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406160
Date Received: 6/18/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/18/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/21/24 10:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 0.5'	E406160-01A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 4'	E406160-02A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 10'	E406160-03A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 15'	E406160-04A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 20'	E406160-05A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 25'	E406160-06A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 30'	E406160-07A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 35'	E406160-08A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.
BH12 40'	E406160-09A	Soil	06/14/24	06/18/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:44:05AM

BH12 0.5'

E406160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>	76.7 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	151	20.0	1	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:44:05AM

BH12 4'

E406160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	309	100	5	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:44:05AM

BH12 10'

E406160-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.3 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
<i>Surrogate: n-Nonane</i>	81.6 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	302	100	5	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:44:05AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 15'

E406160-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	84.3 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	220	40.0	2	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:44:05AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 20'

E406160-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	81.4 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	433	40.0	2	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:44:05AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 25'

E406160-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	81.9 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	59.2	20.0	1	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/21/2024 10:44:05AM
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BH12 30'

E406160-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	87.0 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	323	40.0	2	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:44:05AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 35'

E406160-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	78.0 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	332	40.0	2	06/18/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:44:05AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 40'

E406160-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Benzene	ND	0.0250	1	06/18/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/18/24	06/19/24	
Toluene	ND	0.0250	1	06/18/24	06/19/24	
o-Xylene	ND	0.0250	1	06/18/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/18/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/18/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/18/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/18/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425042	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/24	06/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/24	06/20/24	
Surrogate: n-Nonane	82.6 %	50-200		06/18/24	06/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425045	
Chloride	331	40.0	2	06/18/24	06/19/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:44:05AM

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 (2425040-BLK1)Prepared: 06/18/24 Analyzed: 06/19/24

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	7.42		8.00		92.8	70-130			

LCS (2425040-BS1)Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	4.88	0.0250	5.00		97.6	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.2	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2425040-MS1)Source: E406160-04Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133			
Ethylbenzene	4.65	0.0250	5.00	ND	93.0	61-133			
Toluene	4.85	0.0250	5.00	ND	96.9	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2425040-MSD1)Source: E406160-04Prepared: 06/18/24 Analyzed: 06/19/24

Benzene	4.90	0.0250	5.00	ND	98.1	54-133	0.698	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.5	61-133	0.515	20	
Toluene	4.88	0.0250	5.00	ND	97.5	61-130	0.583	20	
o-Xylene	4.78	0.0250	5.00	ND	95.5	63-131	0.749	20	
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131	0.603	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131	0.651	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:44:05AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425040-BLK1) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			

LCS (2425040-BS2) Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			

Matrix Spike (2425040-MS2) Source: E406160-04 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.69		8.00		109	70-130			

Matrix Spike Dup (2425040-MSD2) Source: E406160-04 Prepared: 06/18/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130	4.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:44:05AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425042-BLK1)					Prepared: 06/18/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.1		50.0		84.1	50-200			

LCS (2425042-BS1)					Prepared: 06/18/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	45.1		50.0		90.1	50-200			

Matrix Spike (2425042-MS1)					Source: E406159-07		Prepared: 06/18/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			

Matrix Spike Dup (2425042-MSD1)					Source: E406159-07		Prepared: 06/18/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	1.86	20	
Surrogate: n-Nonane	45.2		50.0		90.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:44:05AM

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 (2425045-BLK1)					Prepared: 06/18/24 Analyzed: 06/19/24				
Chloride	ND	20.0							
LCS (2425045-BS1)					Prepared: 06/18/24 Analyzed: 06/18/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2425045-MS1)					Source: E406160-04		Prepared: 06/18/24 Analyzed: 06/19/24		
Chloride	543	40.0	250	220	129	80-120			M1
Matrix Spike Dup (2425045-MSD1)					Source: E406160-04		Prepared: 06/18/24 Analyzed: 06/19/24		
Chloride	478	40.0	250	220	103	80-120	12.8	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/21/24 10:44

- M1 Matrix spike recovery was above acceptance 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.

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.		Bill To		Lab Use Only		TAT		EPA Program	
Project: Yates Federal #1		Attention: Jim Raley		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Anna Byers		Address: 5315 Buena Vista Dr.		Job Number		Standard			
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		E406160 21058-0007		5 day TAT			
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502		Analysis and Method				RCRA	
Phone: 432-305-6415		Email: jim.raley@divn.com						State	
Email: Devon-team@etechnv.com		WO: 21181897						NM CO UT AZ TX	
		Incident ID: nAB1428734057, nRM2011138650							

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	BDOC NM	GDGC TX	Remarks
8:00	06.14.24	S	1	PH09	1	0.5'						X		
8:10	06.14.24	S	1	PH09	2	4'						X		
8:20	06.14.24	S	1	PH09	3	10'						X		
8:30	06.14.24	S	1	PH09	4	15'						X		
8:40	06.14.24	S	1	PH09	5	20'						X		
8:50	06.14.24	S	1	PH09	6	25'						X		
9:00	06.14.24	S	1	PH09	7	30'						X		
9:10	06.14.24	S	1	PH09	8	35'						X		
9:20	06.14.24	S	1	PH09	9	40'								
06/17/2024														

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: EK					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		06/17/24	7:00	Michelle Gonzales	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Michelle Gonzales		6-17-24	1600	[Signature]	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		6-17-24	2315	[Signature]	
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.					

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

Envirotech Analytical Laboratory

Printed: 6/18/2024 9:57:53AM

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:	06/18/24 08:00	Work Order ID:	E406160
Phone:	(575) 200-6754	Date Logged In:	06/18/24 09:19	Logged In By:	Jessica Liesse
Email:	anna@etechnv.vom	Due Date:	06/24/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program		
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 400160		2058-0007							5 day TAT			
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		Depth (ft.)	TPH GRO/DRO/DHO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415					Email: jim.raley@devn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks		
8:00	06.14.24	S	1	PH09 BH12	1	0.5'							X				Name Changes per E. Herrera 6/19/24 - RAE		
8:10	06.14.24	S	1	PH09 BH12	2	4'							X						
8:20	06.14.24	S	1	PH09 BH12	3	10'							X						
8:30	06.14.24	S	1	PH09 BH12	4	15'							X						
8:40	06.14.24	S	1	PH09 BH12	5	20'							X						
8:50	06.14.24	S	1	PH09 BH12	6	25'							X						
9:00	06.14.24	S	1	PH09 BH12	7	30'							X						
9:10	06.14.24	S	1	PH09 BH12	8	35'							X						
9:20	06.14.24	S	1	PH09 BH12	9	40'													
06/17/2024																			
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.												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.							
Sampled by: EK																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		06/17/24	7:00	Michelle Gonzales		6-17-24	0700	Received on ice: Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gonzales		6-17-24	1600	Andrew		6-17-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
Andrew		6-17-24	2315	Michelle		06-18-24	0800	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406168

Job Number: 01058-0007

Received: 6/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/21/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/21/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406168
Date Received: 6/19/2024 7:00:32AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/19/2024 7:00:32AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 06/21/24 10:41
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 45'	E406168-01A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH12 50'	E406168-02A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH12 55'	E406168-03A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/21/2024 10:41:04AM
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BH12 45'

E406168-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Benzene	ND	0.0250	1	06/19/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/19/24	
Toluene	ND	0.0250	1	06/19/24	06/19/24	
o-Xylene	ND	0.0250	1	06/19/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425051	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
Surrogate: n-Nonane	92.0 %	50-200		06/19/24	06/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425050	
Chloride	232	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/21/2024 10:41:04AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH12 50'

E406168-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Benzene	ND	0.0250	1	06/19/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/19/24	
Toluene	ND	0.0250	1	06/19/24	06/19/24	
o-Xylene	ND	0.0250	1	06/19/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/19/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425051	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
Surrogate: n-Nonane	93.1 %	50-200		06/19/24	06/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425050	
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/21/2024 10:41:04AM

BH12 55'

E406168-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Benzene	ND	0.0250	1	06/19/24	06/19/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/19/24	
Toluene	ND	0.0250	1	06/19/24	06/19/24	
o-Xylene	ND	0.0250	1	06/19/24	06/19/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/19/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2425046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		06/19/24	06/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2425051	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/19/24	
<i>Surrogate: n-Nonane</i>						
	95.1 %	50-200		06/19/24	06/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425050	
Chloride	204	200	10	06/19/24	06/19/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:41:04AM

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 (2425046-BLK1)Prepared: 06/19/24 Analyzed: 06/19/24

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	7.51		8.00		93.9	70-130			

LCS (2425046-BS1)Prepared: 06/19/24 Analyzed: 06/19/24

Benzene	4.89	0.0250	5.00		97.8	70-130			
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130			
Toluene	4.87	0.0250	5.00		97.4	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130			
Total Xylenes	14.5	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

LCS Dup (2425046-BSD1)Prepared: 06/19/24 Analyzed: 06/19/24

Benzene	4.90	0.0250	5.00		98.1	70-130	0.277	20	
Ethylbenzene	4.81	0.0250	5.00		96.3	70-130	0.325	20	
Toluene	4.89	0.0250	5.00		97.7	70-130	0.319	20	
o-Xylene	4.80	0.0250	5.00		96.1	70-130	0.355	20	
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130	0.233	20	
Total Xylenes	14.6	0.0250	15.0		97.2	70-130	0.274	20	
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:41:04AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425046-BLK1) Prepared: 06/19/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			

LCS (2425046-BS2) Prepared: 06/19/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS Dup (2425046-BSD2) Prepared: 06/19/24 Analyzed: 06/19/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.5	70-130	2.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:41:04AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425051-BLK1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.1		50.0		90.1	50-200			

LCS (2425051-BS1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike (2425051-MS1)					Source: E406162-06		Prepared: 06/19/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike Dup (2425051-MSD1)					Source: E406162-06		Prepared: 06/19/24 Analyzed: 06/19/24		
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	1.89	20	
Surrogate: n-Nonane	50.2		50.0		100	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/21/2024 10:41:04AM

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 (2425050-BLK1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Chloride	ND	20.0							
LCS (2425050-BS1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2425050-MS1)					Source: E406161-01		Prepared: 06/19/24 Analyzed: 06/19/24		
Chloride	574	20.0	250	318	102	80-120			
Matrix Spike Dup (2425050-MSD1)					Source: E406161-01		Prepared: 06/19/24 Analyzed: 06/19/24		
Chloride	563	20.0	250	318	97.8	80-120	1.96	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/21/24 10:41

- 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.



Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only						TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406168		01058-0007							5 day TAT				
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOD TX	State					
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechenv.com				WO: 21181897															
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
13:00	06.17.24	S	1	PH09	1	45'								X					
13:30	06.17.24	S	1	PH09	2	50'								X					
14:00	06.17.24	S	1	PH09	3	55'								X					
06/18/2024																			
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: EK																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
[Signature]		06/18/24		7:00		Michelle Gonzales		6-18-24		0700		Received on ice: Y / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Michelle Gonzales		6-19-24		0630		Kuyper & Hall		6-19-24		0700									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 6/19/2024 1:15:48PM

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:	06/19/24 07:00	Work Order ID:	E406168
Phone:	(575) 200-6754	Date Logged In:	06/18/24 16:12	Logged In By:	Jessica Liesse
Email:	anna@etechnv.vom	Due Date:	06/25/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 406168		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
13:00	06.17.24	S	1	PH09	BH12	1	45'							x	Name changes per E. Herrera Loligium RAS			
13:30	06.17.24	S	1	PH09	BH12	2	50'							x				
14:00	06.17.24	S	1	PH09	BH12	3	55'							x				
06/18/2024																		
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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<i>[Signature]</i>		06/18/24	2:00	Michelle Gonzales		6-18-24	0700	Received on ice: Y / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Michelle Gonzales		6-19-24	0630	Kuyler R. Hsu		6-19-24	0700											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406165

Job Number: 01058-0007

Received: 6/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/25/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/25/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406165
Date Received: 6/19/2024 7:00:32AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/19/2024 7:00:32AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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

Lynn Jarboe
Laboratory Technical Representative
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ljjarboe@envirotech-inc.com

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/25/24 16:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH13 0.5'	E406165-01A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 4'	E406165-02A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 10'	E406165-03A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 15'	E406165-04A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 20'	E406165-05A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 25'	E406165-06A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 30'	E406165-07A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 35'	E406165-08A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 40'	E406165-09A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 45'	E406165-10A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 50'	E406165-11A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.
BH13 55'	E406165-12A	Soil	06/17/24	06/19/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 0.5'

E406165-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/19/24	06/20/24	
Surrogate: Toluene-d8		101 %	70-130	06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/19/24	06/20/24	
Surrogate: Toluene-d8		101 %	70-130	06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane		74.7 %	50-200	06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	37.9	20.0	1	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 4'

E406165-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.4 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.4 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	73.7 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	100	5	06/19/24	06/20/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 10'

E406165-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.1 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.1 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	73.0 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	44.4	20.0	1	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 15'

E406165-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	100 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	100 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	73.9 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	123	100	5	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 4:23:07PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH13 20'

E406165-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425048	
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	97.7 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	97.7 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425061	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	74.7 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2425065	
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/25/2024 4:23:07PM
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BH13 25'

E406165-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/19/24	06/20/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/19/24	06/20/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane		72.9 %	50-200	06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 4:23:07PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH13 30'

E406165-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425048	
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	100 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2425048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	100 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425061	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	71.3 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2425065	
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 4:23:07PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH13 35'

E406165-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	98.6 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	98.6 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	75.7 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 40'

E406165-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/20/24	
Toluene	ND	0.0250	1	06/19/24	06/20/24	
o-Xylene	ND	0.0250	1	06/19/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.3 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/20/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		06/19/24	06/20/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		06/19/24	06/20/24	
Surrogate: Toluene-d8	99.3 %	70-130		06/19/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	74.7 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/25/2024 4:23:07PM
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BH13 45'

E406165-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/21/24	
Toluene	ND	0.0250	1	06/19/24	06/21/24	
o-Xylene	ND	0.0250	1	06/19/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	97.6 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	97.6 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	ND	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	73.8 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/25/2024 4:23:07PM
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BH13 50'

E406165-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/21/24	
Toluene	ND	0.0250	1	06/19/24	06/21/24	
o-Xylene	ND	0.0250	1	06/19/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	99.6 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	99.6 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	44.7	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	72.6 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 4:23:07PM

BH13 55'

E406165-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Benzene	ND	0.0250	1	06/19/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/19/24	06/21/24	
Toluene	ND	0.0250	1	06/19/24	06/21/24	
o-Xylene	ND	0.0250	1	06/19/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/19/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	99.2 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2425048
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/19/24	06/21/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		06/19/24	06/21/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/19/24	06/21/24	
Surrogate: Toluene-d8	99.2 %	70-130		06/19/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425061
Diesel Range Organics (C10-C28)	43.1	25.0	1	06/19/24	06/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/19/24	06/21/24	
Surrogate: n-Nonane	69.1 %	50-200		06/19/24	06/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425065
Chloride	ND	200	10	06/19/24	06/19/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 4:23:07PM

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 (2425048-BLK1) Prepared: 06/19/24 Analyzed: 06/20/24

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	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

LCS (2425048-BS1) Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.37	0.0250	2.50		95.0	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	4.96	0.0500	5.00		99.2	70-130			
Total Xylenes	7.49	0.0250	7.50		99.9	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2425048-MS1) Source: E406165-05 Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.35	0.0250	2.50	ND	94.1	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.5	45-135			
Toluene	2.30	0.0250	2.50	ND	91.9	48-130			
o-Xylene	2.48	0.0250	2.50	ND	99.2	43-135			
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135			
Total Xylenes	7.28	0.0250	7.50	ND	97.1	43-135			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

Matrix Spike Dup (2425048-MSD1) Source: E406165-05 Prepared: 06/19/24 Analyzed: 06/20/24

Benzene	2.27	0.0250	2.50	ND	90.6	48-131	3.79	23	
Ethylbenzene	2.42	0.0250	2.50	ND	96.6	45-135	0.865	27	
Toluene	2.27	0.0250	2.50	ND	90.7	48-130	1.23	24	
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135	1.10	27	
p,m-Xylene	4.78	0.0500	5.00	ND	95.7	43-135	0.376	27	
Total Xylenes	7.24	0.0250	7.50	ND	96.5	43-135	0.620	27	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 4:23:07PM

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 (2425048-BLK1)					Prepared: 06/19/24 Analyzed: 06/20/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

LCS (2425048-BS2)					Prepared: 06/19/24 Analyzed: 06/20/24				
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike (2425048-MS2)					Source: E406165-05	Prepared: 06/19/24 Analyzed: 06/20/24			
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2425048-MSD2)					Source: E406165-05	Prepared: 06/19/24 Analyzed: 06/20/24			
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.7	70-130	1.25	20	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 4:23:07PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425061-BLK1) Prepared: 06/19/24 Analyzed: 06/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			

LCS (2425061-BS1) Prepared: 06/19/24 Analyzed: 06/21/24

Diesel Range Organics (C10-C28)	247	25.0	250		98.9	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

Matrix Spike (2425061-MS1) Source: E406165-07 Prepared: 06/19/24 Analyzed: 06/21/24

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: n-Nonane	45.6		50.0		91.3	50-200			

Matrix Spike Dup (2425061-MSD1) Source: E406165-07 Prepared: 06/19/24 Analyzed: 06/21/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	1.05	20	
Surrogate: n-Nonane	39.5		50.0		79.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 4:23:07PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425065-BLK1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Chloride	ND	20.0							
LCS (2425065-BS1)					Prepared: 06/19/24 Analyzed: 06/19/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2425065-MS1)					Source: E406165-05		Prepared: 06/19/24 Analyzed: 06/19/24		
Chloride	357	200	250	ND	143	80-120			M6
Matrix Spike Dup (2425065-MSD1)					Source: E406165-05		Prepared: 06/19/24 Analyzed: 06/19/24		
Chloride	360	200	250	ND	144	80-120	0.767	20	M6

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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/25/24 16:23

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- 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.



Project Information

Chain of Custody

Page 1 of 2

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406165		01058-0007					5 day TAT				
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													
Phone: 432-305-6415				Email: jim.raley@devn.com		State											
Email: Devon-team@etechnv.com				WO: 21181897													
Collected by: Edyte Konan				Incident ID: nAB1428734057, nRM2011138650		Remarks											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRQ/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	DOOC		
15:00	06.17.24	S	1	PH10	1	0.5'						X					
15:10	06.17.24	S	1	PH10	2	4'						X					
15:20	06.17.24	S	1	PH10	3	10'						X					
15:30	06.17.24	S	1	PH10	4	15'						X					
15:40	06.17.24	S	1	PH10	5	20'						X					
15:50	06.17.24	S	1	PH10	6	25'						X					
16:00	06.17.24	S	1	PH10	7	30'						X					
16:10	06.17.24	S	1	PH10	8	35'						X					
16:20	06.17.24	S	1	PH10	9	40'						X					
16:30	06.17.24	S	1	PH10	10	45'						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	Lab Use Only									
[Signature]		06/18/24	7:00	Michelle Gonzales		6-18-24	0700	Received on ice: 19 / N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Michelle Gonzales		6-18-24	0630	Michelle K Hello		6-19-24	0700										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Client: WPX Energy Permian, LLC.						Bill To				Lab Use Only							TAT				EPA Program							
Project: Yates Federal #1						Attention: Jim Raley				Lab WO#			Job Number				1D	2D	3D	Standard		CWA	SDWA					
Project Manager: Anna Byers						Address: 5315 Buena Vista Dr.				E406165			01058-0007							5 day TAT								
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				Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State										
Phone: 432-305-6415						Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX						
Email: Devon-team@etechenv.com						WO: 21181897												X										
Incident ID: nAB1428734057, nRM2011138650																												
Collected by: Edyte Konan																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																						
16:40	06.17.24	S	1	PH10	11																							
16:50	06.17.24	S	1	PH10	12																							
06/18/2024																												
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.															Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																				
Michelle Gonzales		06/18/24	7:00	Michelle Gonzales		6-18-24	0700	Received on ice: Y / N																				
Michelle Gonzales		6-18-24	0630	Kuygh R Hall		6-19-24	0700	T1 _____ T2 _____ T3 _____																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4																				
Sample Matrix: S - Soli, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												

Envirotech Analytical Laboratory

Printed: 6/19/2024 11:33:27AM

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:	06/19/24 07:00	Work Order ID:	E406165
Phone:	(575) 200-6754	Date Logged In:	06/18/24 15:52	Logged In By:	Jessica Liesse
Email:	anna@etechnv.vom	Due Date:	06/25/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E406165		01058-0057					5 day TAT				
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													
Phone: 432-305-6415				Email: jim.raley@dv.com												State	
Email: Devon-team@etechnv.com				WO: 21181897												NM CO UT AZ TX	
				Incident ID: nAB1428734057, nRM2011138650													
Collected by: Edyte Konan																	
Sample ID	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	BGDOC NM	GDGC TX	Remarks			
15:10	06.17.24	S	1	PH10 BH13	1	0.5'						X		Name Changes			
15:10	06.17.24	S	1	PH10 BH13	2	4'						X		per E. Herrera			
15:20	06.17.24	S	1	PH10 BH13	3	10'						X		William RAE			
15:30	06.17.24	S	1	PH10 BH13	4	15'						X					
15:40	06.17.24	S	1	PH10 BH13	5	20'						X					
15:50	06.17.24	S	1	PH10 BH13	6	25'						X					
16:00	06.17.24	S	1	PH10 BH13	7	30'						X					
16:10	06.17.24	S	1	PH10 BH13	8	35'						X					
16:20	06.17.24	S	1	PH10 BH13	9	40'						X					
16:30	06.17.24	S	1	PH10 BH13	10	45'						X					

Additional Instructions:

(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	Lab Use Only Received on ice: Y / N T1 T2 T3 AVG Temp °C 4
<i>Kyle</i>	06/18/24	7:00	<i>Michelle Gonzales</i>	6-18-24	0700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	6-18-24	0630	<i>Kyle & Hello</i>	6-19-24	0700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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



envirotech

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406181

Job Number: 01058-0007

Received: 6/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/25/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/25/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406181
Date Received: 6/20/2024 5:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/20/2024 5:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/25/24 12:16
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH14 4'	E406181-01A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 10'	E406181-02A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 15'	E406181-03A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 20'	E406181-04A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 25'	E406181-05A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 30'	E406181-06A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 35'	E406181-07A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 40'	E406181-08A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 45'	E406181-09A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 50'	E406181-10A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.
BH14 55'	E406181-11A	Soil	06/18/24	06/20/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/25/2024 12:16:47PM
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BH14 4'
E406181-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/24/24	
Toluene	ND	0.0250	1	06/20/24	06/24/24	
o-Xylene	ND	0.0250	1	06/20/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/24/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		06/20/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		06/20/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	96.2 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	210	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 12:16:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH14 10'

E406181-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/20/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/20/24	
Toluene	ND	0.0250	1	06/20/24	06/20/24	
o-Xylene	ND	0.0250	1	06/20/24	06/20/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/20/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		06/20/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		06/20/24	06/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	93.7 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	235	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 12:16:47PM

BH14 15'**E406181-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/21/24	
Toluene	ND	0.0250	1	06/20/24	06/21/24	
o-Xylene	ND	0.0250	1	06/20/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	ND	200	10	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 12:16:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH14 20'

E406181-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/21/24	
Toluene	ND	0.0250	1	06/20/24	06/21/24	
o-Xylene	ND	0.0250	1	06/20/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	93.3 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	66.1	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/25/2024 12:16:47PM
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BH14 25'

E406181-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/21/24	
Toluene	ND	0.0250	1	06/20/24	06/21/24	
o-Xylene	ND	0.0250	1	06/20/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.8 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	135	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 12:16:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH14 30'

E406181-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/21/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/21/24	
Toluene	ND	0.0250	1	06/20/24	06/21/24	
o-Xylene	ND	0.0250	1	06/20/24	06/21/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/21/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/21/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		06/20/24	06/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	101 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	171	100	5	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 12:16:47PM

BH14 35'

E406181-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/22/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/22/24	
Toluene	ND	0.0250	1	06/20/24	06/22/24	
o-Xylene	ND	0.0250	1	06/20/24	06/22/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/22/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.6 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
<i>Surrogate: n-Nonane</i>	93.7 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	143	40.0	2	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 12:16:47PM

BH14 40'

E406181-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425082
Benzene	ND	0.0250	1	06/20/24	06/22/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/22/24	
Toluene	ND	0.0250	1	06/20/24	06/22/24	
o-Xylene	ND	0.0250	1	06/20/24	06/22/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/22/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425082
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2425081
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2425084
Chloride	1400	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/25/2024 12:16:47PM

BH14 45'**E406181-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/22/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/22/24	
Toluene	ND	0.0250	1	06/20/24	06/22/24	
o-Xylene	ND	0.0250	1	06/20/24	06/22/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/22/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/22/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/22/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	1350	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 12:16:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH14 50'

E406181-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/22/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/22/24	
Toluene	ND	0.0250	1	06/20/24	06/22/24	
o-Xylene	ND	0.0250	1	06/20/24	06/22/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/22/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/22/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	95.1 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	1320	20.0	1	06/20/24	06/20/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/25/2024 12:16:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH14 55'

E406181-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Benzene	ND	0.0250	1	06/20/24	06/22/24	
Ethylbenzene	ND	0.0250	1	06/20/24	06/22/24	
Toluene	ND	0.0250	1	06/20/24	06/22/24	
o-Xylene	ND	0.0250	1	06/20/24	06/22/24	
p,m-Xylene	ND	0.0500	1	06/20/24	06/22/24	
Total Xylenes	ND	0.0250	1	06/20/24	06/22/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/20/24	06/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	106 %	70-130		06/20/24	06/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2425081	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/20/24	06/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/20/24	06/23/24	
Surrogate: n-Nonane	102 %	50-200		06/20/24	06/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2425084	
Chloride	1450	20.0	1	06/20/24	06/20/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 12:16:47PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425082-BLK1) Prepared: 06/20/24 Analyzed: 06/20/24

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 7.51 8.00 93.9 70-130

LCS (2425082-BS1) Prepared: 06/20/24 Analyzed: 06/20/24

Benzene	4.39	0.0250	5.00		87.9	70-130			
Ethylbenzene	4.49	0.0250	5.00		89.7	70-130			
Toluene	4.52	0.0250	5.00		90.3	70-130			
o-Xylene	4.49	0.0250	5.00		89.9	70-130			
p,m-Xylene	9.12	0.0500	10.0		91.2	70-130			
Total Xylenes	13.6	0.0250	15.0		90.7	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.51 8.00 93.8 70-130

Matrix Spike (2425082-MS1) Source: E406181-02 Prepared: 06/20/24 Analyzed: 06/20/24

Benzene	4.57	0.0250	5.00	ND	91.3	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.3	61-133			
Toluene	4.69	0.0250	5.00	ND	93.9	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.45	0.0500	10.0	ND	94.5	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.45 8.00 93.2 70-130

Matrix Spike Dup (2425082-MSD1) Source: E406181-02 Prepared: 06/20/24 Analyzed: 06/20/24

Benzene	4.58	0.0250	5.00	ND	91.7	54-133	0.400	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	61-133	0.820	20	
Toluene	4.72	0.0250	5.00	ND	94.4	61-130	0.584	20	
o-Xylene	4.70	0.0250	5.00	ND	94.1	63-131	0.501	20	
p,m-Xylene	9.54	0.0500	10.0	ND	95.4	63-131	0.940	20	
Total Xylenes	14.2	0.0250	15.0	ND	95.0	63-131	0.795	20	

Surrogate: 4-Bromochlorobenzene-PID 7.47 8.00 93.4 70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 12:16:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425082-BLK1) Prepared: 06/20/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

LCS (2425082-BS2) Prepared: 06/20/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

Matrix Spike (2425082-MS2) Source: E406181-02 Prepared: 06/20/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2425082-MSD2) Source: E406181-02 Prepared: 06/20/24 Analyzed: 06/20/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130	2.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 12:16:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425081-BLK1) Prepared: 06/20/24 Analyzed: 06/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2425081-BS1) Prepared: 06/20/24 Analyzed: 06/23/24

Diesel Range Organics (C10-C28)	289	25.0	250		116	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike (2425081-MS1) Source: E406181-05 Prepared: 06/20/24 Analyzed: 06/23/24

Diesel Range Organics (C10-C28)	296	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

Matrix Spike Dup (2425081-MSD1) Source: E406181-05 Prepared: 06/20/24 Analyzed: 06/23/24

Diesel Range Organics (C10-C28)	311	25.0	250	ND	124	38-132	4.91	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/25/2024 12:16:47PM

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 (2425084-BLK1)					Prepared: 06/20/24 Analyzed: 06/20/24				
Chloride	ND	20.0							
LCS (2425084-BS1)					Prepared: 06/20/24 Analyzed: 06/20/24				
Chloride	248	20.0	250		99.0	90-110			
Matrix Spike (2425084-MS1)					Source: E406181-02		Prepared: 06/20/24 Analyzed: 06/20/24		
Chloride	476	20.0	250	235	96.5	80-120			
Matrix Spike Dup (2425084-MSD1)					Source: E406181-02		Prepared: 06/20/24 Analyzed: 06/20/24		
Chloride	478	20.0	250	235	97.2	80-120	0.371	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/25/24 12:16

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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 406181		01058-0007							5 day TAT					
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		Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State						
Phone: 432-305-6415					Email: jim.raley@devn.com										NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WO: 21181897																
					Incident ID: nAB1428734057, nRM2011138650																
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks					
11:00	06.18.24	S	1	BH14	1	4'							X								
11:10	06.18.24	S	1	BH14	2	10'							X								
11:20	06.18.24	S	1	BH14	3	15'							X								
11:30	06.18.24	S	1	BH14	4	20'							X								
11:40	06.18.24	S	1	BH14	5	25'							X								
11:50	06.18.24	S	1	BH14	6	30'							X								
12:00	06.18.24	S	1	BH14	7	35'							X								
12:10	06.18.24	S	1	BH14	8	40'							X								
12:20	06.18.24	S	1	BH14	9	45'							X								
12:30	06.18.24	S	1	BH14	10	50'							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: FK									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
		06/19/24	09:00			6-18-24	1030	Received on ice: ☒ N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3	
		6-18-24	1500			6-19-24	1645		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C	
		6-19-24	2245			6-20-24	0500	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.									

*Samples were recd/Rel. by Courier Carrie Anne on 6/19/24, incorrect date was written on COC. - d

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Page 21 of 23

Page 760 of 1755

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E 406181		01058-0007					5 day TAT					
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				Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: 21181897																
Incident ID: nAB1428734057, nRM2011138650																				
Collected by: Edyte Konan																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks														
12:40	06.18.24	S	1	BH14	11															
06/19/2023																				
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.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only				
[Signature]				06/19/24		7:00		[Signature]				6-18-24		1830		Received on ice: ☒ Y / ☐ N				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3				
[Signature]				6-18-24		1500		[Signature]				6-19-24		1645						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C				
[Signature]				6-19-24		2245		[Signature]				6-20-24		0500		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: 6/20/2024 11:10:26AM

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:	06/20/24 05:00	Work Order ID:	E406181
Phone:	(575) 200-6754	Date Logged In:	06/19/24 16:51	Logged In By:	Alexa Michaels
Email:	anna@etechnv.vom	Due Date:	06/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Samples were rcvd/rel. by courier
CarrieAnne on 6/19/24, incorrect date was
originally written on COC by courier. -AM

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406206

Job Number: 01058-0007

Received: 6/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/27/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406206
Date Received: 6/21/2024 9:40:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2024 9:40:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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

Lynn Jarboe
Laboratory Technical Representative
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 06/27/24 08:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH15 0.5'	E406206-01A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 4'	E406206-02A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 10'	E406206-03A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 15'	E406206-04A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 20'	E406206-05A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 25'	E406206-06A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 30'	E406206-07A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH15 35'	E406206-08A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 0.5'

E406206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	06/21/24	06/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/21/24	06/24/24	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	06/21/24	06/24/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70-130	06/21/24	06/24/24	
<i>Surrogate: Toluene-d8</i>		97.7 %	70-130	06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	100	5	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 4'

E406206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.6 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.6 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	112 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	23.7	20.0	1	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 10'

E406206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.3 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.7 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.3 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	111 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	100	5	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/27/2024 8:21:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH15 15'

E406206-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.8 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.8 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	111 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	200	10	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 20'

E406206-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.2 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.2 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	117 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	100	5	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 25'

E406206-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.8 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.1 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.8 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.1 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	116 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	100	5	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/27/2024 8:21:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH15 30'

E406206-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	98.3 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	98.3 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	113 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	100	5	06/21/24	06/22/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/27/2024 8:21:12AM

BH15 35'

E406206-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2425105
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	119 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2425109
Chloride	ND	200	10	06/21/24	06/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 8:21:12AM

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 (2425106-BLK1) Prepared: 06/21/24 Analyzed: 06/24/24

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	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2425106-BS1) Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.36	0.0250	2.50		94.3	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.1	70-130			
Toluene	2.29	0.0250	2.50		91.5	70-130			
o-Xylene	2.33	0.0250	2.50		93.0	70-130			
p,m-Xylene	4.56	0.0500	5.00		91.2	70-130			
Total Xylenes	6.89	0.0250	7.50		91.8	70-130			
Surrogate: Bromofluorobenzene	0.462		0.500		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike (2425106-MS1) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.31	0.0250	2.50	ND	92.4	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.1	43-135			
p,m-Xylene	4.53	0.0500	5.00	ND	90.5	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.466		0.500		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike Dup (2425106-MSD1) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.41	0.0250	2.50	ND	96.2	48-131	4.05	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	3.50	27	
Toluene	2.35	0.0250	2.50	ND	94.1	48-130	3.94	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	4.63	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.7	43-135	4.57	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	4.59	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 8:21:12AM

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 (2425106-BLK1) Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2425106-BS2) Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2425106-MS2) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

Matrix Spike Dup (2425106-MSD2) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130	3.01	20	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 8:21:12AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425105-BLK1) Prepared: 06/24/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.8		50.0		112	50-200			

LCS (2425105-BS1) Prepared: 06/24/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	321	25.0	250		128	38-132			
Surrogate: n-Nonane	57.4		50.0		115	50-200			

Matrix Spike (2425105-MS1) Source: E406202-06 Prepared: 06/24/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	307	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike Dup (2425105-MSD1) Source: E406202-06 Prepared: 06/24/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	330	25.0	250	ND	132	38-132	7.06	20	
Surrogate: n-Nonane	53.2		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/27/2024 8:21:12AM

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 (2425109-BLK1)					Prepared: 06/21/24 Analyzed: 06/22/24				
Chloride	ND	20.0							
LCS (2425109-BS1)					Prepared: 06/21/24 Analyzed: 06/22/24				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2425109-MS1)					Source: E406202-02		Prepared: 06/21/24 Analyzed: 06/22/24		
Chloride	346	20.0	250	95.8	100	80-120			
Matrix Spike Dup (2425109-MSD1)					Source: E406202-02		Prepared: 06/21/24 Analyzed: 06/22/24		
Chloride	342	20.0	250	95.8	98.5	80-120	1.17	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/27/24 08:21

- 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.



Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program					
Project: Yates Federal #1				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E 40620001058-007							5 day TAT						
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				Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 432-305-6415				Email: jim.raley@devn.com												NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com				WO: 21181897																	
Incident ID: nAB1428734057, nRM2011138650																					
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks															
9:00	06.19.24	S	1	BH15	1	0.5'															
9:10	06.19.24	S	1	BH15	2	4'															
9:20	06.19.24	S	1	BH15	3	10'															
9:30	06.19.24	S	1	BH15	4	15'															
9:40	06.19.24	S	1	BH15	5	20'															
9:50	06.19.24	S	1	BH15	6	25'															
10:00	06.19.24	S	1	BH15	7	30'															
10:10	06.19.24	S	1	BH15	8	35'															
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: 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		Lab Use Only									
[Signature]		06/20/24		1430		[Signature]		06/20/24		1430		Received on ice: Y N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
[Signature]		06/20/24		1630		[Signature]		06/20/24		1830											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C									
[Signature]		06/20/24		2400		[Signature]		06/20/24		2440		4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



Envirotech Analytical Laboratory

Printed: 6/21/2024 12:06:47PM

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:	06/21/24 09:40	Work Order ID:	E406206
Phone:	(575) 200-6754	Date Logged In:	06/21/24 12:00	Logged In By:	Alexa Michaels
Email:	anna@etechnv.vom	Due Date:	06/27/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E406207

Job Number: 01058-0007

Received: 6/21/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 6/26/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E406207
Date Received: 6/21/2024 9:40:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/21/2024 9:40:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 06/26/24 14:04
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH16 0.5'	E406207-01A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 4'	E406207-02A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 10'	E406207-03A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 15'	E406207-04A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 20'	E406207-05A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 25'	E406207-06A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 30'	E406207-07A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.
BH16 35'	E406207-08A	Soil	06/19/24	06/21/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/26/2024 2:04:46PM
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BH16 0.5'
E406207-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2425106	
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.8 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2425106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.8 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2426001	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	98.1 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2426007	
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/26/2024 2:04:46PM

BH16 4'

E406207-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.3 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	101 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/25/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 6/26/2024 2:04:46PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BH16 10'

E406207-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.0 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.0 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	106 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 6/26/2024 2:04:46PM
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BH16 15'

E406207-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.4 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.4 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	105 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/26/2024 2:04:46PM

BH16 20'

E406207-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	98.0 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.0 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	98.0 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	104 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/26/2024 2:04:46PM

BH16 25'

E406207-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.0 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	95.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	93.0 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	95.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	104 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/26/2024 2:04:46PM

BH16 30'

E406207-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	103 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	200	10	06/24/24	06/24/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
6/26/2024 2:04:46PM

BH16 35'

E406207-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Benzene	ND	0.0250	1	06/21/24	06/24/24	
Ethylbenzene	ND	0.0250	1	06/21/24	06/24/24	
Toluene	ND	0.0250	1	06/21/24	06/24/24	
o-Xylene	ND	0.0250	1	06/21/24	06/24/24	
p,m-Xylene	ND	0.0500	1	06/21/24	06/24/24	
Total Xylenes	ND	0.0250	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2425106
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/24	06/24/24	
Surrogate: Bromofluorobenzene	94.2 %	70-130		06/21/24	06/24/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/21/24	06/24/24	
Surrogate: Toluene-d8	96.9 %	70-130		06/21/24	06/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2426001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/24	06/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/24	06/25/24	
Surrogate: n-Nonane	95.8 %	50-200		06/24/24	06/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426007
Chloride	ND	100	5	06/24/24	06/24/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/26/2024 2:04:46PM

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 (2425106-BLK1) Prepared: 06/21/24 Analyzed: 06/24/24

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	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2425106-BS1) Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.36	0.0250	2.50		94.3	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.1	70-130			
Toluene	2.29	0.0250	2.50		91.5	70-130			
o-Xylene	2.33	0.0250	2.50		93.0	70-130			
p,m-Xylene	4.56	0.0500	5.00		91.2	70-130			
Total Xylenes	6.89	0.0250	7.50		91.8	70-130			
Surrogate: Bromofluorobenzene	0.462		0.500		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike (2425106-MS1) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.31	0.0250	2.50	ND	92.4	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.4	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.1	43-135			
p,m-Xylene	4.53	0.0500	5.00	ND	90.5	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.466		0.500		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike Dup (2425106-MSD1) Source: E406206-07 Prepared: 06/21/24 Analyzed: 06/24/24

Benzene	2.41	0.0250	2.50	ND	96.2	48-131	4.05	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	3.50	27	
Toluene	2.35	0.0250	2.50	ND	94.1	48-130	3.94	24	
o-Xylene	2.41	0.0250	2.50	ND	96.4	43-135	4.63	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.7	43-135	4.57	27	
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135	4.59	27	
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/26/2024 2:04:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2425106-BLK1)

Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2425106-BS2)

Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2425106-MS2)

Source: E406206-07

Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

Matrix Spike Dup (2425106-MSD2)

Source: E406206-07

Prepared: 06/21/24 Analyzed: 06/24/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130	3.01	20	
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/26/2024 2:04:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2426001-BLK1)					Prepared: 06/24/24 Analyzed: 06/25/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.6		50.0		105	50-200			

LCS (2426001-BS1)					Prepared: 06/24/24 Analyzed: 06/25/24				
Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2426001-MS1)					Source: E406207-07		Prepared: 06/24/24 Analyzed: 06/25/24		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

Matrix Spike Dup (2426001-MSD1)					Source: E406207-07		Prepared: 06/24/24 Analyzed: 06/25/24		
Diesel Range Organics (C10-C28)	317	25.0	250	ND	127	38-132	8.99	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	6/26/2024 2:04:46PM

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 (2426007-BLK1)					Prepared: 06/24/24 Analyzed: 06/24/24				
Chloride	ND	20.0							
LCS (2426007-BS1)					Prepared: 06/24/24 Analyzed: 06/24/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2426007-MS1)					Source: E406207-07		Prepared: 06/24/24 Analyzed: 06/24/24		
Chloride	236	200	250	ND	94.5	80-120			
Matrix Spike Dup (2426007-MSD1)					Source: E406207-07		Prepared: 06/24/24 Analyzed: 06/24/24		
Chloride	263	200	250	ND	105	80-120	10.5	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	06/26/24 14:04

- 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.



Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program			
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 400207		01058-0007							5 day TAT				
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															
Phone: 432-305-6415					Email: jim.raley@dv.com															
Email: Devon-team@etechnv.com					WO: 21181897															
Incident ID: nAB1428734057, nRM2011138650																				
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	BGDOC NM	TX	GDGC	Remarks	State				
																NM	CO			
																UT	AZ			
																TX				
10:30	06.19.24	S	1	BH16	1	0.5'						X								
10:40	06.19.24	S	1	BH16	2	4'						X								
10:50	06.19.24	S	1	BH16	3	10'						X								
11:00	06.19.24	S	1	BH16	4	15'						X								
11:10	06.19.24	S	1	BH16	5	20'						X								
11:20	06.19.24	S	1	BH16	6	25'						X								
11:30	06.19.24	S	1	BH16	7	30'						X								
11:40	06.19.24	S	1	BH16	8	35'						X								
66/20124																				
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.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
[Signature]		06/20/24		1430		[Signature]		6.20.24		1430		Received on ice: 0 / N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
[Signature]		6.20.24		1630		[Signature]		6.20.24		1830										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C								
[Signature]		6.20.24		2400		Raina Schwang		6/20/24		9:40		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.																				



Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410286

Job Number: 01058-0007

Received: 10/24/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 10/31/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410286
Date Received: 10/24/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 10/31/24 13:30
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 0.5'	E410286-01A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 1'	E410286-02A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 2'	E410286-03A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 3'	E410286-04A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 4'	E410286-05A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 5'	E410286-06A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 6'	E410286-07A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 7'	E410286-08A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 8'	E410286-09A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 9'	E410286-10A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 10'	E410286-11A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 11'	E410286-12A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 12'	E410286-13A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 13'	E410286-14A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 14'	E410286-15A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 15'	E410286-16A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 16'	E410286-17A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 17'	E410286-18A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 18'	E410286-19A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 19'	E410286-20A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 0.5'

E410286-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	0.199	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	10/24/24	10/30/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	10/24/24	10/30/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
<i>Surrogate: Bromofluorobenzene</i>		97.6 %	70-130	10/24/24	10/30/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	10/24/24	10/30/24	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
<i>Surrogate: n-Nonane</i>		92.6 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	ND	20.0	1	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 1'

E410286-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		104 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		104 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane		94.5 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	ND	20.0	1	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 2'

E410286-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.2 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	93.3 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	ND	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 3'

E410286-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	89.6 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	ND	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 4'

E410286-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	103 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	167	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 5'

E410286-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	96.5 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	377	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 6'
E410286-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	97.0 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	973	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 7'

E410286-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	95.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	98.6 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	1290	200	10	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 8'

E410286-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	97.0 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	974	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 9'
E410286-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	96.0 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	601	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 10'

E410286-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	83.5 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	612	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 11'

E410286-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	101 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	639	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 12'

E410286-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	101 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	718	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 13'

E410286-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	106 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	734	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 14'

E410286-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		103 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443140	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		103 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444062	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane		95.5 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2443209	
Chloride	837	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 15'

E410286-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		105 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		105 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane		96.0 %	50-200	10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	641	100	5	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 16'

E410286-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	104 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	94.1 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	638	40.0	2	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 17'

E410286-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	108 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	600	20.0	1	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 1:30:47PM

BG01 18'

E410286-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	103 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	95.4 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	622	20.0	1	10/26/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 19'

E410286-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2443140
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		10/24/24	10/30/24	
Surrogate: Toluene-d8	105 %	70-130		10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444062
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	10/30/24	
Surrogate: n-Nonane	95.7 %	50-200		10/29/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2443209
Chloride	671	20.0	1	10/26/24	10/28/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443140-BLK1)

Prepared: 10/24/24 Analyzed: 10/30/24

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	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2443140-BS1)

Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	2.35	0.0250	2.50		94.0	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	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	5.26	0.0500	5.00		105	70-130			
Total Xylenes	7.86	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.3	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

LCS Dup (2443140-BSD1)

Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	2.41	0.0250	2.50		96.5	70-130	2.65	23	
Ethylbenzene	2.63	0.0250	2.50		105	70-130	2.10	27	
Toluene	2.54	0.0250	2.50		102	70-130	1.17	24	
o-Xylene	2.76	0.0250	2.50		111	70-130	5.94	27	
p,m-Xylene	5.50	0.0500	5.00		110	70-130	4.44	27	
Total Xylenes	8.26	0.0250	7.50		110	70-130	4.94	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 1:30:47PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443140-BLK1) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2443140-BS2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

LCS Dup (2443140-BSD2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0		110	70-130	6.91	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 1:30:47PM

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 (2444062-BLK1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.3		50.0		78.5	50-200			

LCS (2444062-BS1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

LCS Dup (2444062-BSD1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132	3.22	20	
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 1:30:47PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443209-BLK1)					Prepared: 10/26/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2443209-BS1)					Prepared: 10/26/24 Analyzed: 10/28/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2443209-BSD1)					Prepared: 10/26/24 Analyzed: 10/28/24				
Chloride	253	20.0	250		101	90-110	0.577	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/24 13:30

- 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.



Project Information

Chain of Custody

Page 1 of 4

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410286		01058-0001					5 day TAT				
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													
Phone: 432-305-6415				Email: jim.raley@dmv.com		State										NM CO UT AZ TX	
Email: Devon-team@etechnv.com				WO: 21181897													
Collected by: Edyte Konan				Incident ID: nAB1428734057, nRM2011138650		Remarks											
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	BGDOC NM	GDOD TX				
11:00	10.22.24	S	1	BG01	1	0.5'						X					
11:10	10.22.24	S	1	BG01	2	1'						X					
11:20	10.22.24	S	1	BG01	3	2'						X					
11:30	10.22.24	S	1	BG01	4	3'						X					
11:40	10.22.24	S	1	BG01	5	4'						X					
11:50	10.22.24	S	1	BG01	6	5'						X					
12:00	10.22.24	S	1	BG01	7	6'						X					
12:10	10.22.24	S	1	BG01	8	7'						X					
12:20	10.22.24	S	1	BG01	9	8'						X					
12:30	10.22.24	S	1	BG01	10	9'						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	Lab Use Only									
[Signature]		10/23/24	6:00	Michelle Gonzales		10-23-24	0600	Received on ice: 0 / N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Michelle Gonzales		10-23-24	1620	[Signature]		10-23-24	1730										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
[Signature]		10-23-24	1330	Cathy Mae		10-24-24	8:00	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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Project Information

Chain of Custody

Page 2 of 4

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program			
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 410286		11058-0007					5 day TAT				
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													
Phone: 432-305-6415					Email: jim.raley@dvn.com		State											
Email: Devon-team@etechnv.com					WO: 21181897													
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650		NM CO UT AZ TX x											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH G10/D10/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDGC TX	Remarks				
12:40	10.22.24	S	1	BG01	11	10'						X						
12:50	10.22.24	S	1	BG01	12	11'						X						
13:00	10.22.24	S	1	BG01	13	12'						X						
13:10	10.22.24	S	1	BG01	14	13'						X						
13:20	10.22.24	S	1	BG01	15	14'						X						
13:30	10.22.24	S	1	BG01	16	15'						X						
13:40	10.22.24	S	1	BG01	17	16'						X						
13:50	10.22.24	S	1	BG01	18	17'						X						
14:00	10.22.24	S	1	BG01	19	18'						X						
14:10	10.22.24	S	1	BG01	20	19'						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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: ☒ Y ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
Michelle Gonzales		10/23/24	6:00	Michelle Gonzales		10.23.24	0600											
Michelle Gonzales		10.23.24	1620	J. H.		10.23.24	1730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
J. H.		10.23.24	2330	Cuth Man		10.24.24	8:00											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ 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: 10/24/2024 8:45:03AM

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:	10/24/24 08:00	Work Order ID:	E410286
Phone:	(575) 200-6754	Date Logged In:	10/23/24 13:17	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	10/30/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been separated into 2 reports due to sample volume. WO are E410286 & E410287.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410287

Job Number: 01058-0007

Received: 10/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 10/31/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410287
Date Received: 10/24/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/24/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 10/31/24 11:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 20'	E410287-01A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 21'	E410287-02A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 22'	E410287-03A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 23'	E410287-04A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 24'	E410287-05A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 25'	E410287-06A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 26'	E410287-07A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 27'	E410287-08A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 28'	E410287-09A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 29'	E410287-10A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 30'	E410287-11A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 31'	E410287-12A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.
BG01 32'	E410287-13A	Soil	10/22/24	10/24/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 20'

E410287-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	10/24/24	10/29/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.5 %	70-130	10/24/24	10/29/24	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	10/24/24	10/29/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.5 %	70-130	10/24/24	10/29/24	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
<i>Surrogate: n-Nonane</i>		86.8 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	559	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 21'

E410287-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		86.0 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	600	40.0	2	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 22'

E410287-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		82.7 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	566	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 23'

E410287-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		84.0 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	563	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 24'

E410287-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		83.5 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	762	100	5	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 11:53:49AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 25'

E410287-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443127	
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443136	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		85.1 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444016	
Chloride	500	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 26'

E410287-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		86.0 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	521	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 27'

E410287-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		112 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		80.4 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	485	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 10/31/2024 11:53:49AM
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BG01 28'

E410287-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		85.3 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	387	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 10/31/2024 11:53:49AM
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BG01 29'

E410287-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443127	
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2443127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2443136	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/28/24	
Surrogate: n-Nonane		86.9 %	50-200	10/24/24	10/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444016	
Chloride	336	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 30'

E410287-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		111 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		80.9 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	369	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
10/31/2024 11:53:49AM

BG01 31'

E410287-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Benzene	ND	0.0250	1	10/24/24	10/29/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/29/24	
Toluene	ND	0.0250	1	10/24/24	10/29/24	
o-Xylene	ND	0.0250	1	10/24/24	10/29/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/29/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2443127
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/29/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/24/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	10/24/24	10/29/24	
Surrogate: Toluene-d8		109 %	70-130	10/24/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2443136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		87.3 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444016
Chloride	294	20.0	1	10/28/24	10/28/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 10/31/2024 11:53:49AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 32'

E410287-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2443127	
Benzene	ND	0.0250	1	10/24/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/24/24	10/30/24	
Toluene	ND	0.0250	1	10/24/24	10/30/24	
o-Xylene	ND	0.0250	1	10/24/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/24/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2443127	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/24	10/30/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/24/24	10/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	10/24/24	10/30/24	
Surrogate: Toluene-d8		110 %	70-130	10/24/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443136	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/24	10/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/24	10/29/24	
Surrogate: n-Nonane		85.4 %	50-200	10/24/24	10/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444016	
Chloride	396	20.0	1	10/28/24	10/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 11:53:49AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443127-BLK1)

Prepared: 10/24/24 Analyzed: 10/29/24

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	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

LCS (2443127-BS1)

Prepared: 10/24/24 Analyzed: 10/30/24

Benzene	2.52	0.0250	2.50		101	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.83	0.0250	2.50		113	70-130			
p,m-Xylene	5.62	0.0500	5.00		112	70-130			
Total Xylenes	8.45	0.0250	7.50		113	70-130			
Surrogate: Bromofluorobenzene	0.615		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

LCS Dup (2443127-BSD1)

Prepared: 10/24/24 Analyzed: 10/29/24

Benzene	2.42	0.0250	2.50		96.9	70-130	3.87	23	
Ethylbenzene	2.48	0.0250	2.50		99.2	70-130	4.69	27	
Toluene	2.47	0.0250	2.50		99.0	70-130	2.48	24	
o-Xylene	2.60	0.0250	2.50		104	70-130	8.79	27	
p,m-Xylene	5.19	0.0500	5.00		104	70-130	7.92	27	
Total Xylenes	7.79	0.0250	7.50		104	70-130	8.21	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 11:53:49AM

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 (2443127-BLK1) Prepared: 10/24/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

LCS (2443127-BS2) Prepared: 10/24/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	36.3	20.0	50.0		72.6	70-130			
Surrogate: Bromofluorobenzene	0.602		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

LCS Dup (2443127-BSD2) Prepared: 10/24/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0		80.4	70-130	10.2	20	
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 11:53:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443136-BLK1)					Prepared: 10/24/24 Analyzed: 10/28/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.3	50-200			

LCS (2443136-BS1)					Prepared: 10/24/24 Analyzed: 10/28/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

Matrix Spike (2443136-MS1)					Source: E410287-11		Prepared: 10/24/24 Analyzed: 10/28/24		
Diesel Range Organics (C10-C28)	306	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	46.4		50.0		92.9	50-200			

Matrix Spike Dup (2443136-MSD1)					Source: E410287-11		Prepared: 10/24/24 Analyzed: 10/28/24		
Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132	5.87	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/2024 11:53:49AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444016-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444016-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2444016-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	255	20.0	250		102	90-110	0.642	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	10/31/24 11:53

- 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.



Client: WPX Energy Permian, LLC.				Bill To Attention: Jim Raley Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@dv.com WO: 21181897 Incident ID: nA81428734057, nRM2011138650		Lab Use Only				TAT				EPA Program			
Project: Yates Federal #1						Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers						E410287			01058-0007			5 day TAT					
Address: 13000 W County Rd 100						Analysis and Method										RCRA	
City, State, Zip: Odessa, TX, 79765																	
Phone: 432-305-6415																	
Email: Devon-team@etechnv.com																	
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	BDOC NM	TX	State			
														NM	CO		
														UT	AZ		
														TX			
														Remarks			
14:20	10.22.24	S	1	BG01	1	20'						X					
14:30	10.22.24	S	1	BG01	2	21'						X					
14:40	10.22.24	S	1	BG01	3	22'						X					
14:50	10.22.24	S	1	BG01	4	23'						X					
15:00	10.22.24	S	1	BG01	5	24'						X					
15:10	10.22.24	S	1	BG01	6	25'						X					
15:20	10.22.24	S	1	BG01	7	26'						X					
15:30	10.22.24	S	1	BG01	8	27'						X					
15:40	10.22.24	S	1	BG01	9	28'						X					
15:50	10.22.24	S	1	BG01	10	29'						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	Lab Use Only									
[Signature]		10/23/24	6:00	Michelle Gonzales		10.23.24	0600	Received on ice: Y/N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Michelle Gonzales		10.23.24	1620	J.H.		10.23.24	1730										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
J.H.		10.23.24	2330	Cuth Mo		10.24.24	8:00	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.																	



Project Information

Chain of Custody

Page 4 of 4

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT				EPA Program							
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E410287		01058-0007							5 day TAT								
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																			
Phone: 432-305-6415					Email: jim.raley@dmv.com		State												NM		CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														X					
Incident ID: nAB1428734057, nRM2011138650																								
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	BGDOC NM	GDGC TX	Remarks										
16:00	10.22.24	S	1	BG01	11	30'						X												
16:10	10.22.24	S	1	BG01	12	31'						X												
16:20	10.22.24	S	1	BG01	13	32'						X												
10/23/2024																								
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 5 °C on subsequent days.																								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																
Michelle Gonzales		10/23/24	6:00	Michelle Gonzales		10/23/24	0600	Received on ice: Y/N																
Michelle Gonzales		10/23/24	1620	Michelle Gonzales		10/23/24	1730	T1 T2 T3																
Michelle Gonzales		10/23/24	2330	Caitlin Man		10/24/24	8:00	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: 10/24/2024 8:46:16AM

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:	10/24/24 08:00	Work Order ID:	E410287
Phone:	(575) 200-6754	Date Logged In:	10/23/24 13:25	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	10/30/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been separated into 2 reports due to sample volume. WO are E410286 & E410287.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410337

Job Number: 01058-0007

Received: 10/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410337
Date Received: 10/28/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/05/24 15:17
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 33'	E410337-01A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 34'	E410337-02A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 35'	E410337-03A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 36'	E410337-04A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 37'	E410337-05A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 38'	E410337-06A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 39'	E410337-07A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 40'	E410337-08A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 41'	E410337-09A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 42'	E410337-10A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 43'	E410337-11A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 44'	E410337-12A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 45'	E410337-13A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 46'	E410337-14A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 47'	E410337-15A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 48'	E410337-16A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 49'	E410337-17A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 50'	E410337-18A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 51'	E410337-19A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 52'	E410337-20A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 53'	E410337-21A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 54'	E410337-22A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 55'	E410337-23A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 56'	E410337-24A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 57'	E410337-25A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 58'	E410337-26A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 59'	E410337-27A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG01 60'	E410337-28A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 33'

E410337-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	10/28/24	11/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	10/28/24	11/01/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	10/28/24	11/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	10/28/24	11/01/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	337	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 34'

E410337-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		103 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		103 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		118 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	240	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 35'

E410337-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	115 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444065	
Chloride	230	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 36'

E410337-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	102 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	102 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	110 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	189	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 37'

E410337-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	109 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	356	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 38'

E410337-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	114 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	363	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 39'

E410337-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	113 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	269	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:17:48PM
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BG01 40'

E410337-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	114 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	310	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 41'

E410337-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	111 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	263	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 42'

E410337-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	114 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	222	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:17:48PM
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BG01 43'

E410337-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	118 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	213	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 44'

E410337-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	102 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	102 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	127 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444065	
Chloride	244	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 45'

E410337-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	113 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444065	
Chloride	233	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 46'

E410337-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.5 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		124 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	194	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 47'

E410337-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	114 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	176	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 48'

E410337-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	119 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444065	
Chloride	166	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 49'

E410337-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		121 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	147	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 50'

E410337-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	116 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	181	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 51'

E410337-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	121 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444065	
Chloride	157	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 52'

E410337-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	85.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444012
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	85.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	123 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444065
Chloride	121	20.0	1	10/29/24	10/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 53'

E410337-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	105 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	111	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 54'

E410337-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	102	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 55'

E410337-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	89.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.9 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	115 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	99.9	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 56'

E410337-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	118 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	117	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:17:48PM
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BG01 57'

E410337-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	124	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 58'

E410337-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
<i>Surrogate: n-Nonane</i>						
	120 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	146	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG01 59'

E410337-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	89.8 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	115 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444029	
Chloride	140	20.0	1	10/28/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:17:48PM

BG01 60'

E410337-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444013
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444013
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444023
Diesel Range Organics (C10-C28)	39.5	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	62.7	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444029
Chloride	93.7	20.0	1	10/28/24	10/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444012-BLK1)

Prepared: 10/28/24 Analyzed: 11/01/24

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	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		92.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2444012-BS1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.32	0.0250	2.50		92.7	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.45	0.0250	2.50		97.9	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.14	0.0500	5.00		103	70-130			
Total Xylenes	7.69	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

LCS Dup (2444012-BSD1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.30	0.0250	2.50		92.1	70-130	0.628	23	
Ethylbenzene	2.50	0.0250	2.50		100	70-130	0.558	27	
Toluene	2.46	0.0250	2.50		98.2	70-130	0.347	24	
o-Xylene	2.57	0.0250	2.50		103	70-130	0.605	27	
p,m-Xylene	5.18	0.0500	5.00		104	70-130	0.862	27	
Total Xylenes	7.75	0.0250	7.50		103	70-130	0.777	27	
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:17:48PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444013-BLK1)

Prepared: 10/28/24 Analyzed: 11/01/24

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	7.23		8.00		90.4	70-130			

LCS (2444013-BS1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.09	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	7.22		8.00		90.3	70-130			

LCS Dup (2444013-BSD1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	4.75	0.0250	5.00		94.9	70-130	9.01	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	8.76	20	
Toluene	4.75	0.0250	5.00		94.9	70-130	8.96	20	
o-Xylene	4.67	0.0250	5.00		93.3	70-130	8.69	20	
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130	8.64	20	
Total Xylenes	14.2	0.0250	15.0		94.5	70-130	8.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444012-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		92.9	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS (2444012-BS2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

LCS Dup (2444012-BSD2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0		109	70-130	0.967	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444013-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.1	70-130			

LCS (2444013-BS2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS Dup (2444013-BSD2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.1	70-130	9.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444022-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			

LCS (2444022-BS1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	59.8		50.0		120	50-200			

LCS Dup (2444022-BSD1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132	4.48	20	
Surrogate: n-Nonane	57.1		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444023-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.2		50.0		112	50-200			

LCS (2444023-BS1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS Dup (2444023-BSD1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	10.6	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

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 (2444029-BLK1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	ND	20.0							
LCS (2444029-BS1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	258	20.0	250		103	90-110			
LCS Dup (2444029-BSD1)					Prepared: 10/28/24 Analyzed: 10/28/24				
Chloride	258	20.0	250		103	90-110	0.171	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:17:48PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444065-BLK1)					Prepared: 10/29/24 Analyzed: 10/31/24				
Chloride	ND	20.0							
LCS (2444065-BS1)					Prepared: 10/29/24 Analyzed: 10/31/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2444065-BSD1)					Prepared: 10/29/24 Analyzed: 10/31/24				
Chloride	255	20.0	250		102	90-110	0.117	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 15:17

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT	EPA Program										
Project: Yates Federal #1	Attention: Jim Raley	Lab WO# E410337	1D 2D 3D Standard	CWA SDWA										
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number 01058-0007	5 day TAT											
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220	Analysis and Method												
City, State, Zip: Odessa, TX, 79765	Phone: 575-885-7502	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415	Email: jim.raley@dv.com									NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com	WO: 21181897													
	Incident ID: nAB1428734057, nRM2011138650													

Collected by: Edyte Konan

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:40	10.23.24	S	1	BG01	11	43'						X		
9:50	10.23.24	S	1	BG01	12	44'						X		
10:00	10.23.24	S	1	BG01	13	45'						X		
10:10	10.23.24	S	1	BG01	14	46'						X		
10:20	10.23.24	S	1	BG01	15	47'						X		
10:30	10.23.24	S	1	BG01	16	48'						X		
10:40	10.23.24	S	1	BG01	17	49'						X		
10:50	10.23.24	S	1	BG01	18	50'						X		
11:00	10.23.24	S	1	BG01	19	51'						X		
11:10	10.23.24	S	1	BG01	20	52'						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.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>[Signature]</i>	10/25/24	06:00	<i>[Signature]</i>	10/25/24	12:00	Received on ice: ☒ / N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>[Signature]</i>	10/25/24	10:15	<i>[Signature]</i>	10/25/24	16:15						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>[Signature]</i>	10/25/24	2:30	<i>[Signature]</i>	10/28/24	8:00	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

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program																																																																										
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																																																																									
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410337		010580057					5 day TAT																																																																											
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		Depth (ft.)	TPH GRO/DRO/JORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	XL	GDOC	State																																																																								
Phone: 432-305-6415				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX																																																																				
Mail: Devon-team@etechnv.com				WO: 21181897																																																																																				
Incident ID: nAB1428734057, nRM2011138650																																																																																								
Collected by: Edyte Konan																																																																																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks																																																																								
11:20	10.23.24	S	1	BG01	21	53'							X																																																																											
11:30	10.23.24	S	1	BG01	22	54'							X																																																																											
11:40	10.23.24	S	1	BG01	23	55'							X																																																																											
11:50	10.23.24	S	1	BG01	24	56'							X																																																																											
12:00	10.23.24	S	1	BG01	25	57'							X																																																																											
12:10	10.23.24	S	1	BG01	26	48'							X																																																																											
12:20	10.23.24	S	1	BG01	27	59'							X																																																																											
12:30	10.23.24	S	1	BG01	28	60'							X																																																																											
10/25/2024																																																																																								
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.																																																																																								
<table border="1"> <tr> <td colspan="4">Relinquished by: (Signature)</td> <td colspan="2">Date</td> <td colspan="2">Time</td> <td colspan="4">Received by: (Signature)</td> <td colspan="2">Date</td> <td colspan="2">Time</td> <td colspan="2">Lab Use Only</td> </tr> <tr> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10/25/24</td> <td colspan="2">06:00</td> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10-25-24</td> <td colspan="2">17:00</td> <td colspan="2">Received on ice: ☒ Y ☐ N</td> </tr> <tr> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10-25-24</td> <td colspan="2">16:15</td> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10/25/24</td> <td colspan="2">16:15</td> <td colspan="2">T1 _____ T2 _____ T3 _____</td> </tr> <tr> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10/25/24</td> <td colspan="2">22:30</td> <td colspan="4"><i>[Signature]</i></td> <td colspan="2">10-28-24</td> <td colspan="2">8:00</td> <td colspan="2">AVG Temp °C <u>4</u></td> </tr> </table>																	Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only		<i>[Signature]</i>				10/25/24		06:00		<i>[Signature]</i>				10-25-24		17:00		Received on ice: ☒ Y ☐ N		<i>[Signature]</i>				10-25-24		16:15		<i>[Signature]</i>				10/25/24		16:15		T1 _____ T2 _____ T3 _____		<i>[Signature]</i>				10/25/24		22:30		<i>[Signature]</i>				10-28-24		8:00		AVG Temp °C <u>4</u>	
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																																																																								
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																																																								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																																																								

Envirotech Analytical Laboratory

Printed: 10/28/2024 1:40:21PM

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:	10/28/24 08:00	Work Order ID:	E410337
Phone:	(575) 200-6754	Date Logged In:	10/25/24 15:53	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	11/01/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410338

Job Number: 01058-0007

Received: 10/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410338
Date Received: 10/28/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/05/24 15:11
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG02 0.5'	E410338-01A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 1'	E410338-02A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 2'	E410338-03A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 3'	E410338-04A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 4'	E410338-05A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 5'	E410338-06A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 6'	E410338-07A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 7'	E410338-08A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 8'	E410338-09A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 9'	E410338-10A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 10'	E410338-11A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 11'	E410338-12A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 12'	E410338-13A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 13'	E410338-14A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 14'	E410338-15A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 15'	E410338-16A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 16'	E410338-17A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 17'	E410338-18A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 18'	E410338-19A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 19'	E410338-20A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 20'	E410338-21A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 21'	E410338-22A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 22'	E410338-23A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 23'	E410338-24A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 24'	E410338-25A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 25'	E410338-26A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 26'	E410338-27A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 27'	E410338-28A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 28'	E410338-29A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.
BG02 29'	E410338-30A	Soil	10/23/24	10/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 0.5'

E410338-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>99.7 %</i>	<i>70-130</i>		<i>10/28/24</i>	<i>11/01/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>88.2 %</i>	<i>70-130</i>		<i>10/28/24</i>	<i>11/01/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>	<i>108 %</i>	<i>50-200</i>		<i>10/28/24</i>	<i>10/31/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 1'
E410338-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	99.8 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	107 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 2'

E410338-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 3'

E410338-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 4'

E410338-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	107 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 5'

E410338-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	112 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 6'

E410338-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 7'

E410338-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 8'

E410338-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 9'

E410338-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0500	2	10/28/24	11/02/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/02/24	
Toluene	ND	0.0500	2	10/28/24	11/02/24	
o-Xylene	ND	0.0500	2	10/28/24	11/02/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/02/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	98.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	106 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 10'

E410338-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	104 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:11:06PM
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BG02 11'

E410338-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 12'

E410338-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:11:06PM
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BG02 13'

E410338-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 14'

E410338-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0500	2	10/28/24	11/02/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/02/24	
Toluene	ND	0.0500	2	10/28/24	11/02/24	
o-Xylene	ND	0.0500	2	10/28/24	11/02/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/02/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 15'

E410338-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	99.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
Surrogate: n-Nonane	102 %	50-200		10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 16'

E410338-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.1 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 17'

E410338-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 18'

E410338-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0500	2	10/28/24	11/02/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/02/24	
Toluene	ND	0.0500	2	10/28/24	11/02/24	
o-Xylene	ND	0.0500	2	10/28/24	11/02/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/02/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 19'

E410338-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444014	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444024	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/31/24	
<i>Surrogate: n-Nonane</i>		91.8 %	50-200	10/28/24	10/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444074	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 20'

E410338-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:11:06PM
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BG02 21'

E410338-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 22'

E410338-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	107 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 3:11:06PM
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BG02 23'

E410338-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	126 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	200	10	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 24'

E410338-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	26.6	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 25'

E410338-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 26'

E410338-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.9 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		116 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 27'

E410338-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/02/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/02/24	
Toluene	ND	0.0500	2	10/28/24	11/02/24	
o-Xylene	ND	0.0500	2	10/28/24	11/02/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/02/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 3:11:06PM

BG02 28'

E410338-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0500	2	10/28/24	11/02/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/02/24	
Toluene	ND	0.0500	2	10/28/24	11/02/24	
o-Xylene	ND	0.0500	2	10/28/24	11/02/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/02/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 29'

E410338-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444023	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	112 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444063	
Chloride	ND	100	5	10/30/24	10/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 3:11:06PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444013-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

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	7.23		8.00		90.4	70-130			

LCS (2444013-BS1) Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.09	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	7.22		8.00		90.3	70-130			

LCS Dup (2444013-BSD1) Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	4.75	0.0250	5.00		94.9	70-130	9.01	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	8.76	20	
Toluene	4.75	0.0250	5.00		94.9	70-130	8.96	20	
o-Xylene	4.67	0.0250	5.00		93.3	70-130	8.69	20	
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130	8.64	20	
Total Xylenes	14.2	0.0250	15.0		94.5	70-130	8.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444014-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

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	7.91		8.00		98.8	70-130			

LCS (2444014-BS1) Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	5.40	0.0250	5.00		108	70-130			
Ethylbenzene	5.25	0.0250	5.00		105	70-130			
Toluene	5.36	0.0250	5.00		107	70-130			
o-Xylene	5.26	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

LCS Dup (2444014-BSD1) Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	5.40	0.0250	5.00		108	70-130	0.0741	20	
Ethylbenzene	5.26	0.0250	5.00		105	70-130	0.189	20	
Toluene	5.37	0.0250	5.00		107	70-130	0.178	20	
o-Xylene	5.28	0.0250	5.00		106	70-130	0.269	20	
p,m-Xylene	10.7	0.0500	10.0		107	70-130	0.257	20	
Total Xylenes	16.0	0.0250	15.0		106	70-130	0.261	20	
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

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 (2444013-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.1	70-130			

LCS (2444013-BS2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS Dup (2444013-BSD2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.1	70-130	9.75	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444014-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.7	70-130			

LCS (2444014-BS2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	39.4	20.0	50.0		78.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

LCS Dup (2444014-BSD2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0		79.9	70-130	1.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444023-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.2		50.0		112	50-200			

LCS (2444023-BS1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS Dup (2444023-BSD1) Prepared: 10/28/24 Analyzed: 11/01/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	10.6	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444024-BLK1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.3		50.0		111	50-200			

LCS (2444024-BS1) Prepared: 10/28/24 Analyzed: 10/31/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS Dup (2444024-BSD1) Prepared: 10/28/24 Analyzed: 10/31/24

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132	1.41	20	
Surrogate: n-Nonane	51.4		50.0		103	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

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 (2444063-BLK1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	ND	20.0							
LCS (2444063-BS1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2444063-BSD1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	257	20.0	250		103	90-110	0.0307	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 3:11:06PM

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 (2444074-BLK1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	ND	20.0							
LCS (2444074-BS1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2444074-BSD1)					Prepared: 10/30/24 Analyzed: 10/30/24				
Chloride	253	20.0	250		101	90-110	0.526	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 15:11

- 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.



Project Information

Chain of Custody

Page 1 of 3

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT	EPA Program
Project: Yates Federal #1	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number	5 day TAT	
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			
Phone: 432-305-6415	Email: jim.raley@dvn.com			
mail: Devon-team@etechnv.com	WO: 21181897			
	Incident ID: nAB1428734057, nRM2011138650			

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	BGDOC NM	GDGC TX	Remarks
13:00	10.23.24	S	1	BG02	1	0.5'						X		
13:10	10.23.24	S	1	BG02	2	1'						X		
13:20	10.23.24	S	1	BG02	3	2'						X		
13:30	10.23.24	S	1	BG02	4	3'						X		
13:40	10.23.24	S	1	BG02	5	4'						X		
13:50	10.23.24	S	1	BG02	6	5'						X		
14:00	10.23.24	S	1	BG02	7	6'						X		
14:10	10.23.24	S	1	BG02	8	7'						X		
14:20	10.23.24	S	1	BG02	9	8'						X		
14:30	10.23.24	S	1	BG02	10	9'						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	Lab Use Only
<i>[Signature]</i>	10/25/24	06:00	<i>[Signature]</i>	10/25/24	12:00	Received on ice: ☒ Y / ☐ N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<i>[Signature]</i>	10/25/24	16:15	<i>[Signature]</i>	10/25/24	16:15	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>[Signature]</i>	10/25/24	22:30	<i>[Signature]</i>	10/28/24	8:00	4

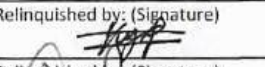
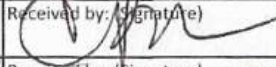
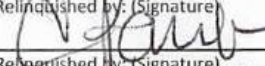
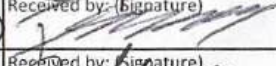
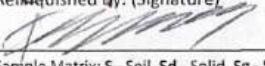
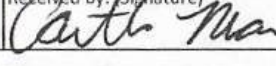
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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.



Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program	
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E410338		Job Number 0059-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT		
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											
mail: Devon-team@etechnv.com				WO: 21181897											
				Incident ID: nAB1428734057, nRM2011138650											
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	BGDOC NM	GDOC TX	Remarks	
14:40	10.23.24	S	1	BG02	11	10'						X			
14:50	10.23.24	S	1	BG02	12	11'						X			
15:00	10.23.24	S	1	BG02	13	12'						X			
15:10	10.23.24	S	1	BG02	14	13'						X			
15:20	10.23.24	S	1	BG02	15	14'						X			
15:30	10.23.24	S	1	BG02	16	15'						X			
15:40	10.23.24	S	1	BG02	17	16'						X			
15:50	10.23.24	S	1	BG02	18	17'						X			
16:00	10.23.24	S	1	BG02	19	18'						X			
16:10	10.23.24	S	1	BG02	20	19'						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.															
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 06:00 Received by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 12:00															
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 16:15 Received by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 16:15															
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 16:25 Received by: (Signature) <i>[Signature]</i> Date 10/28/24 Time 8:00															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT			EPA Program		
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E410338		Job Number 00580007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT		
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											
Email: Devon-team@etechnv.com				WO: 21181897											
				Incident ID: nAB1428734057, nRM2011138650											
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	BGDOC NM	TX	Remarks	
16:20	10.23.24	S	1	BG02	21	20'						X			
16:30	10.23.24	S	1	BG02	22	21'						X			
16:40	10.23.24	S	1	BG02	23	22'						X			
16:50	10.23.24	S	1	BG02	24	23'						X			
17:00	10.23.24	S	1	BG02	25	24'						X			
17:10	10.23.24	S	1	BG02	26	25'						X			
17:20	10.23.24	S	1	BG02	27	26'						X			
17:30	10.23.24	S	1	BG02	28	27'						X			
17:40	10.23.24	S	1	BG02	29	28'						X			
17:50	10.23.24	S	1	BG02	30	29'						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	Lab Use Only							
		10/25/24	06:00			10.25.24	12:00	Received on ice: Y / N							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3							
		10.25.24	16:15			10.25.24	16:15								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C							
		10/25/24	2230			10.28.24	8:00	4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Envirotech Analytical Laboratory

Printed: 10/28/2024 1:55:22PM

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:	10/28/24 08:00	Work Order ID:	E410338
Phone:	(575) 200-6754	Date Logged In:	10/25/24 15:57	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	11/01/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410334

Job Number: 01058-0007

Received: 10/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/4/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410334
Date Received: 10/28/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/04/24 14:19
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG02 30'	E410334-01A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 31'	E410334-02A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 32'	E410334-03A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 33'	E410334-04A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 34'	E410334-05A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 35'	E410334-06A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 36'	E410334-07A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 37'	E410334-08A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 38'	E410334-09A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 39'	E410334-10A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 40'	E410334-11A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 41'	E410334-12A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 42'	E410334-13A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 43'	E410334-14A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 44'	E410334-15A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 45'	E410334-16A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 46'	E410334-17A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 47'	E410334-18A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 48'	E410334-19A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 49'	E410334-20A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 30'

E410334-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/31/24	
Toluene	ND	0.0250	1	10/28/24	10/31/24	
o-Xylene	ND	0.0250	1	10/28/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/31/24	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/28/24	10/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.3 %	70-130	10/28/24	10/31/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/31/24	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/28/24	10/31/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.3 %	70-130	10/28/24	10/31/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	100	5	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 31'

E410334-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/31/24	
Toluene	ND	0.0250	1	10/28/24	10/31/24	
o-Xylene	ND	0.0250	1	10/28/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		116 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/4/2024 2:19:11PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 32'

E410334-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Benzene	ND	0.0250	1	10/28/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/31/24	
Toluene	ND	0.0250	1	10/28/24	10/31/24	
o-Xylene	ND	0.0250	1	10/28/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		112 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 33'

E410334-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	10/31/24	
Ethylbenzene	ND	0.0250	1	10/28/24	10/31/24	
Toluene	ND	0.0250	1	10/28/24	10/31/24	
o-Xylene	ND	0.0250	1	10/28/24	10/31/24	
p,m-Xylene	ND	0.0500	1	10/28/24	10/31/24	
Total Xylenes	ND	0.0250	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	10/31/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	10/31/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	10/28/24	10/31/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	10/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		111 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 34'

E410334-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		103 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/4/2024 2:19:11PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 35'

E410334-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		109 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/4/2024 2:19:11PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 36'

E410334-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	57.4	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	89.3	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		107 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/4/2024 2:19:11PM
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BG02 37'

E410334-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	88.6	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	160	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		106 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/4/2024 2:19:11PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 38'

E410334-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		105 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 39'

E410334-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		117 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 40'

E410334-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		108 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 41'

E410334-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		118 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 42'

E410334-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		121 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		121 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		118 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/4/2024 2:19:11PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 43'

E410334-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		119 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/4/2024 2:19:11PM
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BG02 44'

E410334-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Benzene	ND	0.0500	2	10/28/24	11/01/24	
Ethylbenzene	ND	0.0500	2	10/28/24	11/01/24	
Toluene	ND	0.0500	2	10/28/24	11/01/24	
o-Xylene	ND	0.0500	2	10/28/24	11/01/24	
p,m-Xylene	ND	0.100	2	10/28/24	11/01/24	
Total Xylenes	ND	0.0500	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		104 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 45'

E410334-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	276	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	530	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		115 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/4/2024 2:19:11PM
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BG02 46'

E410334-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	55.0	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	102	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		107 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 47'

E410334-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		115 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/4/2024 2:19:11PM
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BG02 48'

E410334-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	118 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	111 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene	118 %	70-130		10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		10/28/24	11/01/24	
Surrogate: Toluene-d8	111 %	70-130		10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444019	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane	111 %	50-200		10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444051	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/4/2024 2:19:11PM

BG02 49'

E410334-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444010
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444019
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	10/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	10/30/24	
Surrogate: n-Nonane		113 %	50-200	10/28/24	10/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444051
Chloride	ND	200	10	10/29/24	10/30/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/4/2024 2:19:11PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444010-BLK1)

Prepared: 10/28/24 Analyzed: 11/01/24

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	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

LCS (2444010-BS1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.59	0.0250	2.50		103	70-130			
Toluene	2.59	0.0250	2.50		104	70-130			
o-Xylene	2.73	0.0250	2.50		109	70-130			
p,m-Xylene	5.47	0.0500	5.00		109	70-130			
Total Xylenes	8.19	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS Dup (2444010-BSD1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.55	0.0250	2.50		102	70-130	0.275	23	
Ethylbenzene	2.58	0.0250	2.50		103	70-130	0.368	27	
Toluene	2.59	0.0250	2.50		103	70-130	0.193	24	
o-Xylene	2.73	0.0250	2.50		109	70-130	0.0184	27	
p,m-Xylene	5.49	0.0500	5.00		110	70-130	0.374	27	
Total Xylenes	8.21	0.0250	7.50		110	70-130	0.256	27	
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/4/2024 2:19:11PM

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 (2444010-BLK1) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

LCS (2444010-BS2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.5	70-130			
Surrogate: Bromofluorobenzene	0.591		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.564		0.500		113	70-130			

LCS Dup (2444010-BSD2) Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.5	70-130	1.10	20	
Surrogate: Bromofluorobenzene	0.600		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/4/2024 2:19:11PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444019-BLK1) Prepared: 10/28/24 Analyzed: 10/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.7		50.0		117	50-200			

LCS (2444019-BS1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			

LCS Dup (2444019-BSD1) Prepared: 10/28/24 Analyzed: 10/30/24

Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132	0.210	20	
Surrogate: n-Nonane	55.6		50.0		111	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/4/2024 2:19:11PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444051-BLK1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	ND	20.0							
LCS (2444051-BS1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	258	20.0	250		103	90-110			
LCS Dup (2444051-BSD1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	258	20.0	250		103	90-110	0.174	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/04/24 14:19

- 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.



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only	TAT	EPA Program
Project: Yates Federal #1	Attention: Jim Raley	Lab WO# E410334	1D 2D 3D Standard	CWA SDWA
Project Manager: Anna Byers	Address: 5315 Buena Vista Dr.	Job Number 01058-0007	5 day TAT	
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			
Phone: 432-305-6415	Email: jim.raley@dvn.com			State
mail: Devon-team@etechnv.com	WO: 21181897			NM CO UT AZ TX
	Incident ID: nAB1428734057, nRM2011138650			

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	BGDOC NM	GDGC TX	Remarks
8:00	10.24.24	S	1	BG02	1	30'						X		
8:10	10.24.24	S	1	BG02	2	31'						X		
8:20	10.24.24	S	1	BG02	3	32'						X		
8:30	10.24.24	S	1	BG02	4	33'						X		
8:40	10.24.24	S	1	BG02	5	34'						X		
8:50	10.24.24	S	1	BG02	6	35'						X		
9:00	10.24.24	S	1	BG02	7	36'						X		
9:10	10.24.24	S	1	BG02	8	37'						X		
9:20	10.24.24	S	1	BG02	9	38'						X		
9:30	10.24.24	S	1	BG02	10	39'						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.				Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<i>[Signature]</i>	10/25/24	06:00	<i>[Signature]</i>	10/25/24	12:00	Received on ice: ☒ Y ☐ N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3	
<i>[Signature]</i>	10/25/24	10:15	<i>[Signature]</i>	10/25/24	16:15		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	
<i>[Signature]</i>	10/25/24	12:30	<i>[Signature]</i>	10/28/24	8:00	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.							



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT				EPA Program		
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410334		Job Number		01058-0007		5 day TAT		
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		Depth (ft.)						State		
Phone: 432-305-6415				Email: jim.raley@devn.com		TPH GRO/DRO/ORO by 8015						NM CO UT AZ TX		
Email: Devon-team@etechnv.com				WO: 21181897		BTEX by 8021								
Incident ID: nAB1428734057, nRM2011138650						VOC by 8260								
						Metals 6010								
						Chloride 300.0								
								BGDOC NM						
										GDOC TX				
												Remarks		
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	BGDOC NM	GDOC TX	Remarks
9:40	10.24.24	S	1	BG02	11	40'						X		
9:50	10.24.24	S	1	BG02	12	41'						X		
10:00	10.24.24	S	1	BG02	13	42'						X		
10:10	10.24.24	S	1	BG02	14	43'						X		
10:20	10.24.24	S	1	BG02	15	44'						X		
10:30	10.24.24	S	1	BG02	16	45'						X		
10:40	10.24.24	S	1	BG02	17	46'						X		
10:50	10.24.24	S	1	BG02	18	47'						X		
11:00	10.24.24	S	1	BG02	19	48'						X		
11:10	10.24.24	S	1	BG02	20	49'						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.

Relinquished by: (Signature) *[Signature]* Date: 10/25/24 Time: 06:00 Received by: (Signature) *[Signature]* Date: 10/25/24 Time: 12:00

Relinquished by: (Signature) *[Signature]* Date: 10/25/24 Time: 11:05 Received by: (Signature) *[Signature]* Date: 10/25/24 Time: 16:15

Relinquished by: (Signature) *[Signature]* Date: 10/25/24 Time: 22:30 Received by: (Signature) *[Signature]* Date: 10/28/24 Time: 8:00

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

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

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



Envirotech Analytical Laboratory

Printed: 10/28/2024 1:14:20PM

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:	10/28/24 08:00	Work Order ID:	E410334
Phone:	(575) 200-6754	Date Logged In:	10/25/24 15:39	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	11/01/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been separated into 2 reports due to sample volume. WO are E410334 & E410335.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410335

Job Number: 01058-0007

Received: 10/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410335
Date Received: 10/28/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/05/24 12:18
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG02 50'	E410335-01A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 51'	E410335-02A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 52'	E410335-03A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 53'	E410335-04A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 54'	E410335-05A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 55'	E410335-06A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 56'	E410335-07A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 57'	E410335-08A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 58'	E410335-09A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 59'	E410335-10A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG02 60'	E410335-11A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 12:18:12PM
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BG02 50'

E410335-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane	109 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	100	5	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 51'

E410335-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	100	5	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 52'

E410335-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.7 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		117 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 53'

E410335-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.5 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 12:18:12PM

BG02 54'

E410335-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.5 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 55'

E410335-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.3 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 56'

E410335-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.6 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		109 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 57'

E410335-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 58'

E410335-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 59'

E410335-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.7 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	100	5	10/29/24	10/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG02 60'

E410335-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.0 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2444058	
Chloride	ND	200	10	10/29/24	10/30/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 12:18:12PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444007-BLK1)

Prepared: 10/27/24 Analyzed: 10/29/24

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	8.15		8.00		102	70-130			

LCS (2444007-BS1)

Prepared: 10/27/24 Analyzed: 10/29/24

Benzene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.39	0.0250	5.00		108	70-130			
Toluene	5.54	0.0250	5.00		111	70-130			
o-Xylene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

LCS Dup (2444007-BSD1)

Prepared: 10/27/24 Analyzed: 10/30/24

Benzene	5.28	0.0250	5.00		106	70-130	6.43	20	
Ethylbenzene	5.07	0.0250	5.00		101	70-130	6.05	20	
Toluene	5.19	0.0250	5.00		104	70-130	6.42	20	
o-Xylene	5.08	0.0250	5.00		102	70-130	6.12	20	
p,m-Xylene	10.3	0.0500	10.0		103	70-130	5.89	20	
Total Xylenes	15.4	0.0250	15.0		103	70-130	5.96	20	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		103	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 12:18:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444007-BLK1) Prepared: 10/27/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

LCS (2444007-BS2) Prepared: 10/27/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

LCS Dup (2444007-BSD2) Prepared: 10/27/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130	4.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 12:18:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444020-BLK1)					Prepared: 10/28/24 Analyzed: 11/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	50-200			

LCS (2444020-BS1)					Prepared: 10/28/24 Analyzed: 11/04/24				
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS Dup (2444020-BSD1)					Prepared: 10/28/24 Analyzed: 11/04/24				
Diesel Range Organics (C10-C28)	353	25.0	250		141	38-132	30.8	20	L2
Surrogate: n-Nonane	77.3		50.0		155	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 12:18:12PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444058-BLK1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	ND	20.0							
LCS (2444058-BS1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2444058-BSD1)					Prepared: 10/29/24 Analyzed: 10/30/24				
Chloride	253	20.0	250		101	90-110	0.348	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 12:18

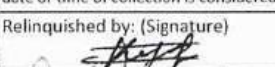
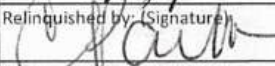
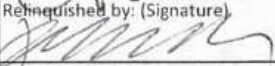
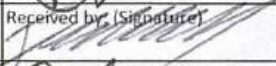
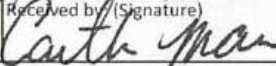
- L2 The LCS spike recovery was above acceptance limits. This analyte was not detected in the sample.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410335		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com				WO: 21181897														
				Incident ID: nAB1428734057, nRM2011138650														
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:20	10.24.24	S	1	BG02	1	50'							X					
11:20	10.24.24	S	1	BG02	2	51'							X					
11:20	10.24.24	S	1	BG02	3	52'							X					
11:20	10.24.24	S	1	BG02	4	53'							X					
11:20	10.24.24	S	1	BG02	5	54'							X					
11:20	10.24.24	S	1	BG02	6	55'							X					
11:20	10.24.24	S	1	BG02	7	56'							X					
11:20	10.24.24	S	1	BG02	8	57'							X					
11:20	10.24.24	S	1	BG02	9	58'							X					
11:20	10.24.24	S	1	BG02	10	59'							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.																		
Relinquished by: (Signature)  Date: 10/25/24 Time: 06:00																		
Relinquished by: (Signature)  Date: 10-25-24 Time: 10:15																		
Relinquished by: (Signature)  Date: 10/25/24 Time: 12:30																		
Received by: (Signature)  Date: 10-25-24 Time: 12:00																		
Received by: (Signature)  Date: 10-25-24 Time: 10:15																		
Received by: (Signature)  Date: 10-25-24 Time: 8:00																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

[illegible]

Envirotech Analytical Laboratory

Printed: 10/28/2024 1:22:06PM

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:	10/28/24 08:00	Work Order ID:	E410335
Phone:	(575) 200-6754	Date Logged In:	10/25/24 15:44	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	11/01/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been separated into 2 reports due to sample volume. WO are E410334 & E410335.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410336

Job Number: 01058-0007

Received: 10/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410336
Date Received: 10/28/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/05/24 13:08
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03 0.5'	E410336-01A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 1'	E410336-02A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 2'	E410336-03A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 3'	E410336-04A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 4'	E410336-05A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 5'	E410336-06A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 6'	E410336-07A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 7'	E410336-08A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 8'	E410336-09A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 9'	E410336-10A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 10'	E410336-11A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 11'	E410336-12A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 12'	E410336-13A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 13'	E410336-14A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 14'	E410336-15A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 15'	E410336-16A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 16'	E410336-17A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 17'	E410336-18A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 18'	E410336-19A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 19'	E410336-20A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 20'	E410336-21A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 21'	E410336-22A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 22'	E410336-23A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.
BG03 23'	E410336-24A	Soil	10/24/24	10/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 0.5'

E410336-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	34.0	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	54.4	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		102 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	243	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 1'

E410336-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	37.4	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	63.1	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		106 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	200	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 1:08:46PM
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BG03 2'
E410336-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		106 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	236	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 3'

E410336-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		102 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	285	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 4'

E410336-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/01/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/01/24	
Toluene	ND	0.0250	1	10/28/24	11/01/24	
o-Xylene	ND	0.0250	1	10/28/24	11/01/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/01/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/01/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/01/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	10/28/24	11/01/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		99.0 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	378	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 5'

E410336-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		101 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	364	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 6'

E410336-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		103 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	682	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 1:08:46PM
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BG03 7'

E410336-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		105 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	253	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 1:08:46PM
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BG03 8'

E410336-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		110 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		106 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	429	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 1:08:46PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 9'

E410336-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		107 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	624	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 10'

E410336-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	42.0	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	55.8	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		101 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	318	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 1:08:46PM
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BG03 11'

E410336-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	118 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	111 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene	118 %	70-130		10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		10/28/24	11/02/24	
Surrogate: Toluene-d8	111 %	70-130		10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	33.6	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane	111 %	50-200		10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	339	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 12'

E410336-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		104 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	337	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 13'

E410336-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		109 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		111 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	236	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/5/2024 1:08:46PM
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BG03 14'

E410336-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		103 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	231	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 1:08:46PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 15'

E410336-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2444011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		119 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444021	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		103 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2444059	
Chloride	277	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 16'

E410336-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		107 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	238	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 17'

E410336-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/01/24	
Surrogate: n-Nonane		103 %	50-200	10/28/24	11/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	264	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 18'

E410336-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		112 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/02/24	
Surrogate: n-Nonane		102 %	50-200	10/28/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	275	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 19'

E410336-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Benzene	ND	0.0250	1	10/28/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/28/24	11/02/24	
Toluene	ND	0.0250	1	10/28/24	11/02/24	
o-Xylene	ND	0.0250	1	10/28/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/28/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444011
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/28/24	11/02/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/28/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	10/28/24	11/02/24	
Surrogate: Toluene-d8		111 %	70-130	10/28/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444021
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/02/24	
Surrogate: n-Nonane		106 %	50-200	10/28/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2444059
Chloride	213	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 1:08:46PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 20'

E410336-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444046	
Chloride	135	100	5	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 21'

E410336-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444007
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.0 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444020
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	224	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 1:08:46PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 22'

E410336-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2444007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444020	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/04/24	
Surrogate: n-Nonane		102 %	50-200	10/28/24	11/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444046	
Chloride	ND	200	10	10/29/24	10/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 1:08:46PM

BG03 23'

E410336-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444007
Benzene	ND	0.0250	1	10/27/24	10/30/24	
Ethylbenzene	ND	0.0250	1	10/27/24	10/30/24	
Toluene	ND	0.0250	1	10/27/24	10/30/24	
o-Xylene	ND	0.0250	1	10/27/24	10/30/24	
p,m-Xylene	ND	0.0500	1	10/27/24	10/30/24	
Total Xylenes	ND	0.0250	1	10/27/24	10/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2444007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/27/24	10/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.0 %	70-130	10/27/24	10/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444020
Diesel Range Organics (C10-C28)	ND	25.0	1	10/28/24	11/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/28/24	11/05/24	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	10/28/24	11/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444046
Chloride	ND	200	10	10/29/24	10/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444011-BLK1)

Prepared: 10/28/24 Analyzed: 11/01/24

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	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

LCS (2444011-BS1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.57	0.0250	2.50		103	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.605		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

LCS Dup (2444011-BSD1)

Prepared: 10/28/24 Analyzed: 11/01/24

Benzene	2.46	0.0250	2.50		98.5	70-130	1.83	23	
Ethylbenzene	2.45	0.0250	2.50		97.9	70-130	3.38	27	
Toluene	2.49	0.0250	2.50		99.5	70-130	3.05	24	
o-Xylene	2.64	0.0250	2.50		106	70-130	0.475	27	
p,m-Xylene	5.23	0.0500	5.00		105	70-130	0.239	27	
Total Xylenes	7.87	0.0250	7.50		105	70-130	0.318	27	
Surrogate: Bromofluorobenzene	0.604		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444007-BLK1)

Prepared: 10/27/24 Analyzed: 10/29/24

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	8.15		8.00		102	70-130			

LCS (2444007-BS1)

Prepared: 10/27/24 Analyzed: 10/29/24

Benzene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.39	0.0250	5.00		108	70-130			
Toluene	5.54	0.0250	5.00		111	70-130			
o-Xylene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

LCS Dup (2444007-BSD1)

Prepared: 10/27/24 Analyzed: 10/30/24

Benzene	5.28	0.0250	5.00		106	70-130	6.43	20	
Ethylbenzene	5.07	0.0250	5.00		101	70-130	6.05	20	
Toluene	5.19	0.0250	5.00		104	70-130	6.42	20	
o-Xylene	5.08	0.0250	5.00		102	70-130	6.12	20	
p,m-Xylene	10.3	0.0500	10.0		103	70-130	5.89	20	
Total Xylenes	15.4	0.0250	15.0		103	70-130	5.96	20	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		103	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444007-BLK1) Prepared: 10/27/24 Analyzed: 10/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

LCS (2444007-BS2) Prepared: 10/27/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

LCS Dup (2444007-BSD2) Prepared: 10/27/24 Analyzed: 10/30/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130	4.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

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 (2444011-BLK1)

Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

LCS (2444011-BS2)

Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: Bromofluorobenzene	0.608		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

LCS Dup (2444011-BSD2)

Prepared: 10/28/24 Analyzed: 11/01/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.6	70-130	2.25	20	
Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.7	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444020-BLK1) Prepared: 10/28/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	50-200			

LCS (2444020-BS1) Prepared: 10/28/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS Dup (2444020-BSD1) Prepared: 10/28/24 Analyzed: 11/04/24

Diesel Range Organics (C10-C28)	353	25.0	250		141	38-132	30.8	20	L2, R2
Surrogate: n-Nonane	77.3		50.0		155	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444021-BLK1)					Prepared: 10/28/24 Analyzed: 11/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	50-200			

LCS (2444021-BS1)					Prepared: 10/28/24 Analyzed: 11/01/24				
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS Dup (2444021-BSD1)					Prepared: 10/28/24 Analyzed: 11/01/24				
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132	7.62	20	
Surrogate: n-Nonane	55.9		50.0		112	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

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 (2444046-BLK1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	ND	20.0							
LCS (2444046-BS1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	259	20.0	250		104	90-110			
LCS Dup (2444046-BSD1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	257	20.0	250		103	90-110	0.660	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 1:08:46PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444059-BLK1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	ND	20.0							
LCS (2444059-BS1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2444059-BSD1)					Prepared: 10/29/24 Analyzed: 10/29/24				
Chloride	253	20.0	250		101	90-110	0.0383	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 13:08

- L2 The LCS spike recovery was above acceptance limits. This analyte was not detected in the sample.
- R2 The RPD exceeded the acceptance limit.
- 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.

Project Information

Chain of Custody

Page 1 of 3

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program					
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410336		01058-0007					5 day TAT						
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			
Phone: 432-305-6415				Email: jim.raley@dmv.com												NM CO UT AZ TX			
Email: Devon-team@etechnv.com				WO: 21181897															
Collected by: Edyte Konan				Incident ID: nAB1428734057, nRM2011138650															
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	BGDOC NM	GDGC TX	Remarks					
13:00	10.24.24	S	1	BG03	1	0.5'						X							
13:10	10.24.24	S	1	BG03	2	1'						X							
13:20	10.24.24	S	1	BG03	3	2'						X							
13:30	10.24.24	S	1	BG03	4	3'						X							
13:40	10.24.24	S	1	BG03	5	4'						X							
13:50	10.24.24	S	1	BG03	6	5'						X							
14:00	10.24.24	S	1	BG03	7	6'						X							
14:10	10.24.24	S	1	BG03	8	7'						X							
14:20	10.24.24	S	1	BG03	9	8'						X							
14:30	10.24.24	S	1	BG03	10	9'						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.																			
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 06:00 Received by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 17:00																			
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 16:15 Received by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 16:15																			
Relinquished by: (Signature) <i>[Signature]</i> Date 10/28/24 Time 2230 Received by: (Signature) <i>[Signature]</i> Date 10/28/24 Time 8:00																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

Project Information

Chain of Custody

Page 2 of 3

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT				EPA Program			
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E410336		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT		
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											
Email: Devon-team@etechnv.com				WO: 21181897											
				Incident ID: nAB1428734057, nRM2011138650											
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	BGDOC NM	GDGC TX	Remarks	
14:40	10.24.24	S	1	BG03	11	10'						X			
14:50	10.24.24	S	1	BG03	12	11'						X			
15:00	10.24.24	S	1	BG03	13	12'						X			
15:10	10.24.24	S	1	BG03	14	13'						X			
15:20	10.24.24	S	1	BG03	15	14'						X			
15:30	10.24.24	S	1	BG03	16	15'						X			
15:40	10.24.24	S	1	BG03	17	16'						X			
15:50	10.24.24	S	1	BG03	18	17'						X			
16:00	10.24.24	S	1	BG03	19	18'						X			
16:10	10.24.24	S	1	BG03	20	19'						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	Lab Use Only		Received on ice: Y / N					
[Signature]		10/25/24	06:00	[Signature]		10/25/24	12:00								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1		T2		T3			
[Signature]		10/25/24	16:15	[Signature]		10/25/24	16:15								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C							
[Signature]		10/25/24	22:30	Caitlin Ma		10/28/24	8:00	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.															



Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program	
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E410336		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT		
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	
Phone: 432-305-6415				Email: jim.raley@devon.com										NM CO UT AZ TX	
Email: Devon-team@etechnv.com				WO: 21181897											
				Incident ID: nAB1428734057, nRM2011138650											
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	BGDOC NM	GDOC TX	Remarks	
16:20	10.24.24	S	1	BG03	21	20'						X			
16:30	10.24.24	S	1	BG03	22	21'						X			
16:40	10.24.24	S	1	BG03	23	22'						X			
16:50	10.24.24	S	1	BG03	24	23'						X			
10/25/2024															
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.															
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 06:00 Received by: (Signature) <i>[Signature]</i> Date 10-25-24 Time 06:15															
Relinquished by: (Signature) <i>[Signature]</i> Date 10-25-24 Time 06:15 Received by: (Signature) <i>[Signature]</i> Date 10-25-24 Time 06:15															
Relinquished by: (Signature) <i>[Signature]</i> Date 10/25/24 Time 22:30 Received by: (Signature) <i>[Signature]</i> Date 10-25-24 Time 8:00															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Envirotech Analytical Laboratory

Printed: 10/28/2024 1:28:13PM

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:	10/28/24 08:00	Work Order ID:	E410336
Phone:	(575) 200-6754	Date Logged In:	10/25/24 15:48	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	11/01/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410348

Job Number: 01058-0007

Received: 10/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410348
Date Received: 10/29/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/29/2024 7:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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mgonzales@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/05/24 10:06
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03 24'	E410348-01A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 25'	E410348-02A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 26'	E410348-03A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 27'	E410348-04A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 28'	E410348-05A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 29'	E410348-06A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 30'	E410348-07A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 31'	E410348-08A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 32'	E410348-09A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 33'	E410348-10A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 34'	E410348-11A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 35'	E410348-12A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 36'	E410348-13A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 37'	E410348-14A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 38'	E410348-15A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 39'	E410348-16A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 40'	E410348-17A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 41'	E410348-18A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 42'	E410348-19A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 43'	E410348-20A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 24'

E410348-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		87.0 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		103 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		87.0 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		103 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		83.3 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	164	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 25'

E410348-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	95.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	74.7 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	147	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 26'

E410348-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	76.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	106 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	76.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	106 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	83.2 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	180	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 27'

E410348-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	81.5 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	160	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 28'

E410348-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	83.8 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	105	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 29'

E410348-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	72.9 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 30'

E410348-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	102 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	98.1 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	102 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	72.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	117	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 31'

E410348-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	77.3 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	99.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	77.3 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	82.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 32'

E410348-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	84.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	84.3 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	83.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 33'

E410348-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444040	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		85.3 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2444040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		85.3 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444055	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		68.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444092	
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 34'

E410348-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	72.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	108	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 35'

E410348-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		105 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		75.6 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 36'

E410348-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	91.6 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	91.6 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	104 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	77.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 37'

E410348-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.9 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	74.6 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 38'

E410348-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		73.3 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 39'

E410348-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	95.8 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	103 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	56.0	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	85.8	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	77.2 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 40'

E410348-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		131 %	70-130	10/29/24	11/02/24	SI
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		77.6 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene		131 %	70-130	10/29/24	11/02/24	SI
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/29/24	11/02/24	
Surrogate: Toluene-d8		77.6 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane		76.6 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 41'

E410348-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	302	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	534	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	72.4 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	143	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 42'

E410348-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	25.2	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	78.4 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	101	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:06:32AM

BG03 43'

E410348-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	72.0 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2444040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: Bromofluorobenzene	72.0 %	70-130		10/29/24	11/02/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/29/24	11/02/24	
Surrogate: Toluene-d8	105 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2444055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	82.3 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2444092
Chloride	ND	100	5	10/30/24	11/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:06:32AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444040-BLK1)

Prepared: 10/29/24 Analyzed: 11/02/24

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	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2444040-BS1)

Prepared: 10/29/24 Analyzed: 11/04/24

Benzene	2.21	0.0250	2.50		88.3	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.5	70-130			
Toluene	2.37	0.0250	2.50		94.9	70-130			
o-Xylene	2.55	0.0250	2.50		102	70-130			
p,m-Xylene	5.14	0.0500	5.00		103	70-130			
Total Xylenes	7.69	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS Dup (2444040-BSD1)

Prepared: 10/29/24 Analyzed: 11/02/24

Benzene	2.27	0.0250	2.50		90.8	70-130	2.72	23	
Ethylbenzene	2.55	0.0250	2.50		102	70-130	3.43	27	
Toluene	2.50	0.0250	2.50		100	70-130	5.23	24	
o-Xylene	2.69	0.0250	2.50		108	70-130	5.40	27	
p,m-Xylene	5.40	0.0500	5.00		108	70-130	4.98	27	
Total Xylenes	8.09	0.0250	7.50		108	70-130	5.12	27	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:06:32AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444040-BLK1)

Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2444040-BS2)

Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS Dup (2444040-BSD2)

Prepared: 10/29/24 Analyzed: 11/02/24

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	2.73	20	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:06:32AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444055-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.7		50.0		85.3	50-200			

LCS (2444055-BS1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	247	25.0	250		99.0	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

LCS Dup (2444055-BSD1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	243	25.0	250		97.4	38-132	1.63	20	
Surrogate: n-Nonane	41.4		50.0		82.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:06:32AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444092-BLK1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	ND	20.0							
LCS (2444092-BS1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2444092-BSD1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	258	20.0	250		103	90-110	0.643	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 10:06

- S1 Surrogate spike recovery was outside of the established acceptance limits.
- 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.



Project Information

Chain of Custody

Page 1 of 4

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only					TAT				EPA Program			
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E410 348		01058-0007						5 day TAT				
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 432-305-6415					Email: jim.raley@dnv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan					Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks								
8:00	10.25.24	S	1	BG03	1	24'							X						
8:10	10.25.24	S	1	BG03	2	25'							X						
8:20	10.25.24	S	1	BG03	3	26'							X						
8:30	10.25.24	S	1	BG03	4	27'							X						
8:40	10.25.24	S	1	BG03	5	28'							X						
8:50	10.25.24	S	1	BG03	6	29'							X						
9:00	10.25.24	S	1	BG03	7	30'							X						
9:10	10.25.24	S	1	BG03	8	31'							X						
9:20	10.25.24	S	1	BG03	9	32'							X						
9:30	10.25.24	S	1	BG03	10	33'							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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		10/28/24	6:00	Michelle Gonzales		10-28-24	0600	Received on ice: ☒ Y ☐ N											
Michelle Gonzales		10-28-24	1600	[Signature]		10-28-24	1700	T1 _____ T2 _____ T3 _____											
[Signature]		10-28-24	2315	Noe Soto		10-29-24	0730	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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Project Information

Chain of Custody

Page 2 of 4

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT			EPA Program						
Project: Yates Federal #1				Attention: Jim Raley		Lab WO# E410348		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.									5 day TAT				
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220											RCRA		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502									State				
Phone: 432-305-6415				Email: jim.raley@dv.com									NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897													
				Incident ID: nAB1428734057, nRM2011138650									Remarks				
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	BGDOC NM	TL GDCC				
9:40	10.25.24	S	1	BG03	11	34'						X					
9:50	10.25.24	S	1	BG03	12	35'						X					
10:00	10.25.24	S	1	BG03	13	36'						X					
10:10	10.25.24	S	1	BG03	14	37'						X					
10:20	10.25.24	S	1	BG03	15	38'						X					
10:30	10.25.24	S	1	BG03	16	39'						X					
10:40	10.25.24	S	1	BG03	17	40'						X					
10:50	10.25.24	S	1	BG03	18	41'						X					
11:00	10.25.24	S	1	BG03	19	42'						X					
11:10	10.25.24	S	1	BG03	20	43'						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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
<i>[Signature]</i>		10/28/24	6:00	<i>Michelle Gonzales</i>		10-28-24	0600	Received on ice: ☒ Y / ☐ N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
<i>Michelle Gonzales</i>		10-28-24	1600	<i>[Signature]</i>		10-28-24	1700										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>									
<i>[Signature]</i>		10-28-24	2315	<i>Noe Soto</i>		10-28-24	0730										
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: 10/29/2024 12:14:17PM

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:	10/29/24 07:30	Work Order ID:	E410348
Phone:	(575) 200-6754	Date Logged In:	10/28/24 16:57	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	11/04/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been split into 2 WOs due to sample volume, the WOs are E410348-E410349.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E410349

Job Number: 01058-0007

Received: 10/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 11/5/24



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E410349
Date Received: 10/29/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/29/2024 7:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 11/05/24 10:42
	Project Number:	01058-0007	
	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03 44'	E410349-01A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 45'	E410349-02A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 46'	E410349-03A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 47'	E410349-04A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 48'	E410349-05A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 49'	E410349-06A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 50'	E410349-07A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 51'	E410349-08A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 52'	E410349-09A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 53'	E410349-10A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 54'	E410349-11A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 55'	E410349-12A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 56'	E410349-13A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 57'	E410349-14A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 58'	E410349-15A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 59'	E410349-16A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.
BG03 60'	E410349-17A	Soil	10/25/24	10/29/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 44'

E410349-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 45'

E410349-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.4 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	76.5	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	110	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>						
		86.9 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 46'

E410349-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.7 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	48.5	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	73.9	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		85.2 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 47'

E410349-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	26.7	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>						
	91.2 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 48'

E410349-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	99.8 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	53.8	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	101	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	93.3 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 49'

E410349-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		81.7 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 50'

E410349-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 51'

E410349-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	25.0	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		87.6 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 52'

E410349-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	25.9	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 53'

E410349-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.9 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
<i>Surrogate: n-Nonane</i>						
		87.1 %	50-200	10/29/24	11/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 54'

E410349-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
Surrogate: 4-Bromochlorobenzene-PID	99.4 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.4 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/02/24	
Surrogate: n-Nonane	84.1 %	50-200		10/29/24	11/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 55'

E410349-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/03/24	
<i>Surrogate: n-Nonane</i>						
	91.1 %	50-200		10/29/24	11/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 56'

E410349-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/02/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/02/24	
Toluene	ND	0.0250	1	10/29/24	11/02/24	
o-Xylene	ND	0.0250	1	10/29/24	11/02/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/02/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/29/24	11/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	72.8	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	116	50.0	1	10/29/24	11/03/24	
<i>Surrogate: n-Nonane</i>		93.4 %	50-200	10/29/24	11/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 57'

E410349-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/03/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/03/24	
Toluene	ND	0.0250	1	10/29/24	11/03/24	
o-Xylene	ND	0.0250	1	10/29/24	11/03/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/03/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	55.8	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	97.7	50.0	1	10/29/24	11/03/24	
<i>Surrogate: n-Nonane</i>		88.1 %	50-200	10/29/24	11/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 58'

E410349-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/03/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/03/24	
Toluene	ND	0.0250	1	10/29/24	11/03/24	
o-Xylene	ND	0.0250	1	10/29/24	11/03/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/03/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/03/24	
<i>Surrogate: n-Nonane</i>						
	89.6 %	50-200		10/29/24	11/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
11/5/2024 10:42:46AM

BG03 59'

E410349-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/03/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/03/24	
Toluene	ND	0.0250	1	10/29/24	11/03/24	
o-Xylene	ND	0.0250	1	10/29/24	11/03/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/03/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/03/24	
<i>Surrogate: n-Nonane</i>						
	83.4 %	50-200		10/29/24	11/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	100	5	10/30/24	11/01/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

BG03 60'

E410349-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Benzene	ND	0.0250	1	10/29/24	11/03/24	
Ethylbenzene	ND	0.0250	1	10/29/24	11/03/24	
Toluene	ND	0.0250	1	10/29/24	11/03/24	
o-Xylene	ND	0.0250	1	10/29/24	11/03/24	
p,m-Xylene	ND	0.0500	1	10/29/24	11/03/24	
Total Xylenes	ND	0.0250	1	10/29/24	11/03/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2444056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/29/24	11/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.7 %	70-130		10/29/24	11/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2444066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/29/24	11/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/29/24	11/03/24	
Surrogate: n-Nonane	91.7 %	50-200		10/29/24	11/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2444093	
Chloride	ND	200	10	10/30/24	11/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 11/5/2024 10:42:46AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444056-BLK1)

Prepared: 10/29/24 Analyzed: 11/03/24

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: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

LCS (2444056-BS1)

Prepared: 10/29/24 Analyzed: 11/03/24

Benzene	5.27	0.0250	5.00		105	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.27	0.0250	5.00		105	70-130			
o-Xylene	5.20	0.0250	5.00		104	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

LCS Dup (2444056-BSD1)

Prepared: 10/29/24 Analyzed: 11/03/24

Benzene	5.28	0.0250	5.00		106	70-130	0.0190	20	
Ethylbenzene	5.18	0.0250	5.00		104	70-130	0.0425	20	
Toluene	5.27	0.0250	5.00		105	70-130	0.0142	20	
o-Xylene	5.20	0.0250	5.00		104	70-130	0.0817	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	0.00427	20	
Total Xylenes	15.7	0.0250	15.0		105	70-130	0.0299	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:42:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444056-BLK1) Prepared: 10/29/24 Analyzed: 11/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130			

LCS (2444056-BS2) Prepared: 10/29/24 Analyzed: 11/03/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			

LCS Dup (2444056-BSD2) Prepared: 10/29/24 Analyzed: 11/03/24

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.5	70-130	0.717	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:42:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2444066-BLK1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.8		50.0		77.6	50-200			

LCS (2444066-BS1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS Dup (2444066-BSD1) Prepared: 10/29/24 Analyzed: 11/02/24

Diesel Range Organics (C10-C28)	288	25.0	250		115	38-132	3.55	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/5/2024 10:42:46AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2444093-BLK1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	ND	20.0							
LCS (2444093-BS1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	249	20.0	250		99.7	90-110			
LCS Dup (2444093-BSD1)					Prepared: 10/30/24 Analyzed: 11/01/24				
Chloride	250	20.0	250		100	90-110	0.237	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	11/05/24 10:42

- 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.



Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E410349		01038-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dyn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21181897														
				Incident ID: nAB1428734057, nRM2011138650														
Collected by: Edyte Konan														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
11:20	10.25.24	S	1	BG03	1	44'						X						
11:30	10.25.24	S	1	BG03	2	45'						X						
11:40	10.25.24	S	1	BG03	3	46'						X						
11:50	10.25.24	S	1	BG03	4	47'						X						
12:00	10.25.24	S	1	BG03	5	48'						X						
12:10	10.25.24	S	1	BG03	6	49'						X						
12:20	10.25.24	S	1	BG03	7	50'						X						
12:30	10.25.24	S	1	BG03	8	51'						X						
12:40	10.25.24	S	1	BG03	9	52'						X						
12:50	10.25.24	S	1	BG03	10	53'						X						
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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<i>[Signature]</i>		10/28/24	6:00	<i>Michelle Gonzales</i>		10-28-24	0600	Received on ice: ☒ N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
<i>Michelle Gonzales</i>		10-28-24	1600	<i>[Signature]</i>		10-28-24	1700											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
<i>[Signature]</i>		10-28-24	2315	<i>Noe Soto</i>		10-28-24	0730	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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Project Information

Chain of Custody

Page 4 of 4

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E410349		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRC/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 432-305-6415					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com					WO: 21181897														
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
13:00	10.25.24	S	1	BG03	11	54'							X						
13:10	10.25.24	S	1	BG03	12	55'							X						
13:20	10.25.24	S	1	BG03	13	56'							X						
13:30	10.25.24	S	1	BG03	14	57'							X						
13:40	10.25.24	S	1	BG03	15	58'							X						
13:50	10.25.24	S	1	BG03	16	59'							X						
14:00	10.25.24	S	1	BG03	17	60'							X						
10/28/2024																			
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.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		10/28/24	6:00	<i>Michele Gonzales</i>		10-28-24	0600	Received on ice: ☒ Y ☐ N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
<i>Michele Gonzales</i>		10-28-24	1600	<i>[Signature]</i>		10-28-24	1700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
<i>[Signature]</i>		10-28-24	2315	<i>Nae [Signature]</i>		10-28-24	0730	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: 10/29/2024 12:15:15PM

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:	10/29/24 07:30	Work Order ID:	E410349
Phone:	(575) 200-6754	Date Logged In:	10/28/24 17:06	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	11/04/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Project Yates Federal #1 has been split into 2 WOs due to sample volume, the WOs are E410348-E410349.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 J

Archived Correspondence and Notification Receipts

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, February 9, 2024 9:10 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: WPX Energy Extension Request - nRM2011138650 and nAB1428734057

RE: Incident #**NRM2011138650** and **NAB1428734057**

Jim,

Your request for a 90-day extension to **May 9th, 2024**, is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, February 8, 2024 2:48 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechemv.com>
Subject: [EXTERNAL] WPX Energy Extension Request - nRM2011138650 and nAB1428734057

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension for a report required in 19.15.29.12.B.(1) NMAC at the Yates Federal #001 (Site) associated with Incident Numbers nAB1428734057 and nRM2011138650, currently due on February 13, 2024.

A Remediation Work Plan was submitted to the NMOCD on November 15, 2023, but was denied for not providing sufficient delineation data. As a result, WPX secured a driller to advance delineation borings in order to present additional laboratory analytical data in a subsequent Remediation Work Plan, addressing the denial responses issued by NMOCD. Due to the extent of planning, which includes but is not limited to acquiring land access approval, permitting to drill, and accommodating the drillers schedule, additional time to complete delineation activities is warranted. Drilling is tentatively scheduled to be begin within the next two weeks, contingent on the NMOSE approval of drilling permits.

To provide enough time for the completion of delineation activities, receipt of laboratory analytical results, review and compilation of laboratory analytical results and field summaries associated with Incident Numbers nAB1428734057 and nRM2011138650, and submittal of a formal report, WPX requests a 90-day extension of the current deadline to **May 13, 2024**.

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.raley@devon.com



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Anna Byers

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Tuesday, June 25, 2024 3:56 PM
To: Anna Byers
Cc: Devon-Team; Jim.Raley@dvn.com
Subject: Re: [EXTERNAL] WPX Energy Background Soil Sampling Plan for Yates Federal #001 Incident Numbers nAB1428734057 and NRM2011138650

Follow Up Flag: Follow up
Flag Status: Flagged

Bureau of Land Management



Please consider this the BLM's approval of the sampling plan and locations provided on your map. Please submit your (NOI) Notice of Intent under the "OTHER" tab, for approval to off pad delineation/remediation and environmental impact review. AFMSS will create an auto populated sundry ID number once the form has been submitted. Please shoot me that ID number so that I can easily find your submission within our system.

Please let me know if you run into any issues.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned & Idled Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



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From: Anna Byers <anna@etechenv.com>
Sent: Thursday, June 13, 2024 3:58 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dvn.com <Jim.Raley@dvn.com>
Subject: FW: [EXTERNAL] WPX Energy Background Soil Sampling Plan for Yates Federal #001 Incident Numbers nAB1428734057 and NRM2011138650

Good afternoon Crisha,

On behalf of WPX Energy, LLC. (WPX), Etech Environmental and Safety Solutions (Etech) proposed a soil sampling plan to the NMOCD to investigate the presence of naturally occurring elevated chloride concentrations at the Yates Federal #001 (Site) prior to initiating remediation activities to rectify environmental impacts associated with two inadvertent releases assigned Incident Numbers nAB1428734057 and NRM2011138650. The NMOCD denied the sampling plan "as written" but outlined their requirements for investigating naturally occurring elevated chloride concentrations. The proposed plan with the original proposed background soil sampling locations map (attached **Figure 4**) in addition the denial response from the NMOCD may be found within and/or otherwise attached to this email chain.

Initiation of background sampling is contingent on BLM approval of the provided sampling plan. As such, WPX requests the BLM to review the proposed background sampling plan, as outlined by the NMOCD, and grant permission to proceed or provide feedback on BLM preferences. WPX recognizes that an additional Sundry Request is required to cover the proposed area where background soil sampling locations will be advanced. Once BLM approves the sampling plan or otherwise an alternate BLM specific proposal, WPX will submit the Sundry Request and proceed accordingly.

Please let me know if you have any questions or require any additional information.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415
Cell: (575) 200-6754

From: Anna Byers
Sent: Thursday, June 13, 2024 3:22 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Raley, Jim <Jim.Raley@dmn.com>; Devon-Team <Devon-Team@etechenv.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WPX Energy Background Soil Sampling Plan for Yates Federal #001 Incident Numbers nAB1428734057 and NRM2011138650

Good afternoon Brittany,

Thank you for taking the time for your consideration and to review this background soil sampling plan. We will submit this background soil sampling plan to the Bureau of Land Management (BLM), the surface owner of the Site, and contingent on BLM approval, we will proceed with planning and scheduling the background soil sampling plan as you have outlined below with four sampling locations dispersed throughout the given area and with consideration to any other measures that the surface owner may request.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415

Cell: (575) 200-6754

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Thursday, June 13, 2024 2:24 PM

To: Anna Byers <anna@etechev.com>; Raley, Jim <Jim.Raley@dvn.com>; Devon-Team <Devon-Team@etechev.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Subject: RE: [EXTERNAL] WPX Energy Background Soil Sampling Plan for Yates Federal #001 Incident Numbers nAB1428734057 and NRM2011138650

Some people who received this message don't often get email from brittany.hall@emnrd.nm.gov. [Learn why this is important](#)

Anna,

OCD denies the background soil sampling plan as written.

OCD is requiring at least 4 background sample boreholes be completed. Samples from the individual boreholes will need to be collected and analyzed for chloride, TPH and BTEX by the approved methods in Table I (19.15.29 NMAC) at 1-foot intervals from the total depth of the boreholes (i.e. if a borehole is 20 feet deep, 20 grab samples will need to be collected at every foot and sent to the lab to be analyzed). If TPH or BTEX is detected in any borehole, that borehole location will not be accepted for use as background samples.

OCD is requiring that the 4 boreholes be located within the red polygon seen in the image below, or as close as possible based on field conditions. The 4 borehole locations will need to be placed throughout the entire area; OCD will not allow all background sample locations to be clustered together. Locations should also be chosen upgradient and outside of any drainage features that function as a pathway for contamination migration or other features that may be a source of potential contamination from other sites.



OCD will not approve the use the greatest chloride concentration to be accepted as the limit for naturally occurring background concentrations at the site. The chloride concentrations at each interval must be averaged in order to determine a natural background concentration.

Due to this site being in a High Karst Occurrence Zone, approval of the chloride background concentrations must be obtained from the surface owner and supplied to the OCD when the variance request to use the chloride background concentration to drive remediation efforts in lieu of Table I closure standards.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/oed/oed-announcements-and-notifications/> or <https://www.emnrd.nm.gov/oed/oed-forms/>.

From: Anna Byers <anna@etechenv.com>
Sent: Friday, June 7, 2024 1:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jim.Raley@dv.com; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Energy Background Soil Sampling Plan for Yates Federal #001 Incident Numbers nAB1428734057 and NRM2011138650

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Good afternoon,

On behalf of WPX Energy, LLC., Etech Environmental and Safety Solutions proposes to investigate naturally occurring background concentrations for chloride at the Yates Federal #001 (Site). Background soil sampling locations were proposed in a Site Characterization and Remediation Plan (SCR), which were allocated to undisturbed areas located 50 feet but no greater than 100 feet from the releases, at equal or higher elevations in respect to the AOC, and upgradient to the predicted flow of groundwater. The SCR was denied and the NMOCD replied specifically in regard to the proposed background chloride investigation, *"Background sample locations and proposal to use the greatest chloride concentration and the lowest chloride concentration as an acceptable range for naturally occurring background concentrations denied. The OCD will not approve using a range of chloride concentrations for background concentrations. Proposed background samples located east of the site are located in an area where the elevation is trending down and where potential disturbance has been located in the past based on vegetation loss and soil discoloration seen on Google Earth aerials. The northern most proposed background sample is located in close proximity of the suspected historic pit and other potential disturbed areas based on scaring seen on Google Earth aerials."*

As such, WPX proposes the three originally proposed background soil sampling locations to all be relocated northeast of the release (**Attached Figure 4**), approximately 75 to 150 feet from the edge of the release in undisturbed areas, so that sampling will be conducted at a higher elevation than the release area and further away from the historical reserve pit as to avoid any potential influence of increased chloride from either event/area. Soil samples collected from the proposed background locations will be handled and analyzed by an accredited lab for chloride, TPH and BTEX by the approved methods in Table I, NMAC 19.15.29.12. If laboratory analytical results indicate naturally occurring background chloride concentrations are greater than 600 mg/kg, WPX proposes to use the greatest chloride concentration to be accepted as the limit for naturally occurring background concentrations at the Site and apply to **the same respective depth(s)** in which the elevated background chloride concentration(s) was found, which should be corrected in respect to changes in surface elevation. As such, WPX requests a variance for the elevated chloride concentration to drive remediation efforts accordingly.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415

Cell: (575) 200-6754

Erick Herrera

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, July 30, 2024 9:01 AM
To: Raley, Jim; Anna Byers
Cc: Devon-Team; Bratcher, Michael, EMNRD; Smith, Cory, EMNRD; Romero, Rosa, EMNRD; Powell, Brandon, EMNRD
Subject: RE: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

Jim,

Thank you for the timeline. The 90-day extension for nAB1428734057 and NRM2011138650 is approved. The new due date is October 29, 2024.

This will be the last extension granted for these incident numbers. If background sampling, pursuant to the background sampling plan, is not completed within the 90-day period, the release must be remediated to the most stringent closure criteria.

Please include a copy of this email, including the timeframe attachment, in the next submission.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Raley, Jim <Jim.Raley@dmv.com>
Sent: Monday, July 29, 2024 2:48 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Anna Byers <anna@etechenv.com>
Cc: Devon-Team <Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

Brittany,

Please see the attached timeline for both incidents at the Yates Federal #001 and let me know if you have any questions.

Two produced water and/or crude oil releases that occurred at the Yates Federal #001 (Site) were discovered on October 3, 2014, and April 14, 2020, and subsequently assigned Incident Numbers nAB1428734057 and NRM2011138650. WPX Energy Permian, LLC. (WPX) requested an extension for both Incident Numbers in order to investigate naturally occurring elevated chloride concentrations and karst potential at the Site, and in response, the

NMOCD required justification of background sampling and a timeline for each Incident Number for consideration of an extension.

Incident Number nAB1428734057

A total of three remediation plan reports for Incident Number nAB1428734057 were submitted to the NMOCD requiring one extension request, however, this will be the first extension requested since the most recent report denial on May 31, 2024, and continued remediation efforts have been ongoing. The current extension in question will be the second requested extension request for this incident. Gaps in scheduled work are contributed to delays in land access permitting processes, pending NMOCD report reviews, and pending BLM review for the consideration of downgrading karst potential based on a pedestrian karst survey. Please reference the attached timeline for a detailed recollection of completed corrective actions.

Incident Number NRM2011138650

At the time of release discovery, the Site was within a designated medium karst potential. As such, remedial efforts were underway in accordance with Closure Criteria associated with a depth to groundwater determination between 51 and 100 feet below ground surface (bgs). However, the karst potential has since been updated to a BLM designated high karst potential which in turn changed the Closure Criteria to standards associated with a depth to groundwater determination less than 50 feet bgs. Due to the updated Site Closure Criteria, WPX requested and was granted a total of two extensions to re-evaluate the karst potential at the Site with a pedestrian karst survey overseen by a karst specialist in September 2020. The results of the survey were negative, and a subsequent Deferral Request was submitted to the NMOCD assuming Site Closure Criteria associated with a depth to groundwater determination of 51-100 feet bgs in January 2021. The report was denied due to the current designated high karst potential at the Site. Additional measures would have to be completed in conjunction with approval with BLM in order to downgrade the karst potential to medium, however, BLM did not have a karst specialist at this time and delayed further remedial efforts. In May 2022, delineation activities resumed by a third-party environmental consultant and a Remediation Work Plan was prepared proposing additional delineation in June 2023. The report was denied due to incomplete delineation and recognized that the NMOCD would honor a BLM decision to downgrade karst potential. Drilling activities were coordinated at this time, however, the driller's scheduling availability was not going to allow WPX to meet the reporting deadline. As a result, an extension was requested and granted to allow continuance of the scheduled delineation drilling activities. A Site Characterization and Remediation Plan was prepared by the extended deadline, and subsequently denied on May 31, 2024.

In conclusion, extensions have been requested for this incident three times, and the current extension in question will be the fourth for this incident. However, this will be the first extension requested since the most recent report denial on May 31, 2024, and continued remediation efforts have been ongoing. Gaps in scheduled work are contributed to changes in Site characterization due to updated BLM karst potential designations, delays in land access permitting processes, pending NMOCD report reviews, and pending BLM review for the consideration of downgrading karst potential based on a pedestrian karst survey. Please reference the attached timeline for a detailed recollection of completed corrective actions.

Jim Raley | Environmental Professional - Permian Basin

5315 Buena Vista Dr., Carlsbad, NM 88220

C: (575)689-7597 | jim.rale@devon.com



From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Wednesday, July 24, 2024 10:15 AM

To: Anna Byers <anna@etechnv.com>; Raley, Jim <Jim.Raley@devon.com>

Cc: Devon-Team <Devon-Team@etechnv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Smith,

Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>

Subject: RE: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

Anna and Jim,

OCD records show there have been gaps, in years, between submittals for each of these releases. In addition, approved extensions for these releases have already been approved multiple times.

OCD is requesting a timeframe explaining activities that have been performed at the Yates Federal #001. These timeframes for each incident number must explain the gaps in time between submittals.

The timeframe will be used to determine if an additional extension request will be approved.

Thank you,

Brittany Hall ● Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd/>

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From: Anna Byers <anna@etechnv.com>

Sent: Tuesday, July 23, 2024 4:08 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Devon-Team <Devon-Team@etechnv.com>; Jim.Raley@dmv.com; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Subject: RE: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

Good afternoon Brittany,

WPX proposes to continue to investigate naturally occurring elevated chloride concentrations at the Site, due to the inconsistent chloride concentration trends observed in the boring soil samples. The majority of the borings south of the Area of Concern (AOC) and one located north of the AOC exhibit a unique pattern of chloride concentrations where the shallower samples of the borings are below 600 mg/kg but begin to increase after 15 feet bgs or deeper. Additionally, there are borings located relatively within close proximity of each other, but do not show consistent depths of impacts. As such, WPX believes that the additional borings will help either confirm or eliminate the possibility of these abnormalities to be attributed to naturally occurring elevated chloride.

WPX does not believe that naturally occurring chlorides are present within the top 20 to 25 feet bgs, however, given the current data set, WPX still believes that naturally occurring chloride concentrations may exist beyond 25 feet bgs. However, it appears that NMOCD will not accept the presence of elevated chloride concentrations based on the presented data, and WPX agrees that further investigation is warranted due to the close proximity of the existing delineation soil sampling locations to the release(s). As such, proposed background soil sampling locations were placed

within the area given by the NMOCD as instructed and coordination efforts have been underway since the formal BLM approval of the Background Sampling Plan on June 25, 2024.

If elevated chloride concentrations were proven to exist via laboratory analytical results from the proposed background soil sampling locations, WPX would apply the accepted background concentration to only the same respective depths in which they were found, which should be corrected in respect to changes in surface elevation. As such, the background concentration for the respective depths will be requested as a variance to drive remediation efforts accordingly. WPX is aware that the majority of the data set does not provide horizontal nor vertical delineation. Vertical delineation to 600 mg/kg was attempted at each boring location but also treated with caution due to the anticipated presence of groundwater between 51 and 100 feet bgs in combination with the potential presence of natural elevated chloride. However, the current data set will be re-evaluated based on the discovery of naturally occurring elevated chloride concentrations and further advancement may not be necessary.

Continued drilling was not said to be scheduled next month at the Site due to the driller's limited scheduling availability, but Etech is currently searching to procure another driller with availability that agrees with this Site's pressing schedule.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415
Cell: (575) 200-6754

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, July 23, 2024 2:11 PM
To: Anna Byers <anna@etechev.com>
Cc: Devon-Team <Devon-Team@etechev.com>; Jim.Raley@dvn.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>
Subject: RE: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

Anna,
Per the correspondence included in the email, BLM approved the sampling plan on June 25, 2024.

The pothole (PH)/borehole (BH) samples indicate that elevated background chloride concentrations do not exist outside of the impacted areas, and that the 600 mg/kg remediation closure/reclamation standard for chloride is applicable in this case. Additional vertical delineation is required at the areas already cleared by BLM. Vertical delineation will need to be completed to 600 mg/kg for chloride concentrations pending approval of the need of additional background sampling.

What is WPX/Devon's reasoning as to why additional background samples are needed based on the additional information gathered during the June sampling event? If WPX/Devon can justify the need for additional borings, what are the additional surveys required to obtain BLM land access and when are the additional surveys scheduled? What date are the additional boring scheduled for next month?

Thank you,
Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

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From: Anna Byers <anna@etechenv.com>
Sent: Friday, July 19, 2024 12:33 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechenv.com>; Jim.Raley@dmv.com
Subject: [EXTERNAL] WPX Energy Yates Federal #001 Extension Request - Incident Numbers nAB1428734057 and NRM2011138650

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

On behalf of WPX Energy Permian, LLC (WPX), Etech Environmental and Safety Solutions, Inc. (Etech) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC for two inadvertent releases that occurred at the Yates Federal #001 (Site).

Two produced water and/or crude oil releases were discovered on October 3, 2014, and April 14, 2020, and subsequently assigned Incident Numbers nAB1428734057 and NRM2011138650. WPX conducted initial delineation activities and submitted a Site Characterization and Remediation Plan (SCRP) proposing the consideration of designating a lesser karst potential based on an Electrical Resistivity Imaging (ERI) survey results and the presence of naturally occurring elevated background chloride concentrations at the Site. The NMOCD denied the SCRCP as is and appointed a new deadline of July 31, 2024, for submittal of a SCRCP Addendum (SCRPA). Since the SCRCP denial, eleven additional delineation borings have been advanced at the Site (*attached Figure and Table*), and a Background Soil Sampling Plan was submitted to the NMOCD and BLM (*attached Email Correspondence*) proposing to investigate the presence of naturally occurring elevated chloride concentrations at the Site. The BLM approved the Background Soil Sampling Plan with the condition of completing the required BLM land access measures for the proposed disturbance area extension, which may include but is not limited to an SSPS survey, cultural survey, and Sundry. WPX believes continued delineation soil sampling and additional investigation of naturally occurring elevated chloride concentrations are warranted to complete a Site appropriate SCRPA and develop the most efficient path forward towards rectifying environmental impacts.

WPX requests an extension to allow additional time for the following:

- Coordination and completion of surveys required to obtain BLM land access to complete additional borings,
- Planning and coordination of additional drilling activities,
- Advancement of continued delineation boring activities,
- Investigation of naturally occurring elevated background chloride concentration(s),
- Receipt and review of laboratory analytical results,
- Discussion with NMOCD and BLM of the Site karst potential and additional laboratory analytical results under consideration of naturally occurring elevated chloride concentrations, and
- Report preparation.

As such, WPX requests a 90-day extension of the current **July 31, 2024**, deadline for the two releases associated with Incident Numbers **nAB1428734057** and **NRM2011138650** to **October 29, 2024**.

Thank you,

Anna Byers
Senior Geologist



Work: (432) 305-6415
Cell: (575) 200-6754

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From: [Erick Herrera](#)
To: [Joseph Hernandez](#)
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)
Date: Tuesday, December 20, 2022 4:46:57 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

n f

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 3:58 PM
To: Erick Herrera <eherrera@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

[**EXTERNAL EMAIL**]

Erick

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 11:54 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Erick Herrera <eherrera@ensolum.com>
Sent: Wednesday, November 2, 2022 11:52 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO_Spill, BLM_NM' <blm_nm_cfo_spill@blm.gov>
Cc: Raley, Jim <jim.raley@dyn.com>; Devon-Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

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Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between November 7th – November 11th, 2022:

Site Name: LVP #001
API: 30-015-42234
Incident Number: nAPP2135033453

Site Name: RDX 21-44
API: 30-015-41193
Incident Number: nAPP2115533694

Site Name: UCBH WW ROW
API: 30-015-24451, 30-015-24034
Incident Numbers: nAB1805133508, nAB1501655607, nAB1522341642, nAB1621453181, nAB1633639499

Site Name: Ross Draw Unit #034
API: 30-015-41578
Incident Numbers: nAPP2107554265, NAB1736055339, and NAB1528240224

Site Name: Yates Federal #001
API: 30-015-24602
Incident Number: NRM2011138650 and NAB1428734057

Site Name: Pecos Federal #001Y
API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: MWJ Federal 1

API: 30-015-24262

Incident Numbers: nAB1503440420, nAB1524652333, and nAB1719940724



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

in f 

PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC

8330 LBJ Freeway, Ste. B830

Dallas, TX 75243

District I1625 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 316482

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316482
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 316482

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316482
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

District I

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 316484

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 316484

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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Santa Fe, NM 87505

QUESTIONS

Action 316485

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316485
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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

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

CONDITIONS

Action 316485

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316485
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

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 333336

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 333336

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/15/2024

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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 338656

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338656
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/01/2024
Time sampling will commence	08:00 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 338656

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338656
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/29/2024

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Santa Fe, NM 87505

QUESTIONS

Action 339633

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339633
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339633

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339633
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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Santa Fe, NM 87505

QUESTIONS

Action 351073

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351073
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/10/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 351073

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351073
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS

Action 351075

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351075
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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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 351075

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351075
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 351076

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351076
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/12/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 351076

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351076
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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Santa Fe, NM 87505

QUESTIONS

Action 351077

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351077
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/13/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 351077

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351077
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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Santa Fe, NM 87505

QUESTIONS

Action 351079

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351079
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/14/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 351079

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351079
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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QUESTIONS

Action 353622

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353622
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/18/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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

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

CONDITIONS

Action 353622

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353622
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/12/2024

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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 354729

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
Time sampling will commence	08:30 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 354729

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/17/2024

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QUESTIONS

Action 354729

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
Time sampling will commence	08:30 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 354729

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354729
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/17/2024

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QUESTIONS

Action 354628

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354628
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
Time sampling will commence	08:30 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 354628

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354628
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/16/2024

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Santa Fe, NM 87505

QUESTIONS

Action 355560

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355560
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 355560

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355560
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/18/2024

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State of New Mexico
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1220 S. St Francis Dr.
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QUESTIONS

Action 355565

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355565
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 355565

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355565
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/18/2024

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QUESTIONS

Action 391345

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391345
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391345

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391345
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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QUESTIONS

Action 391346

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391346
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391346

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391346
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

District I1625 N. French Dr., Hobbs, NM 88240
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Santa Fe, NM 87505

QUESTIONS

Action 391347

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391347
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391347

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391347
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

District I

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District III

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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 391351

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391351
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/18/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391351

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391351
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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Santa Fe, NM 87505

QUESTIONS

Action 393710

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393710
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/21/2024
Time sampling will commence	07:00 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393710

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393710
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 393716

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393716
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/22/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393716

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393716
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393717

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393717
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393717

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393717
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393719

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393719
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/24/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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State of New Mexico
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CONDITIONS

Action 393719

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393719
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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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 393722

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393722
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/25/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393722

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393722
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 339631

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339631
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/06/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339631

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339631
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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QUESTIONS

Action 339636

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339636
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339636

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339636
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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Santa Fe, NM 87505

QUESTIONS

Action 339639

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339639
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 339639

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339639
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

District I

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

QUESTIONS

Action 339643

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339643
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/10/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339643

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339643
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 316487

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 316487

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

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

QUESTIONS

Action 316484

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 316484

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

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QUESTIONS

Action 316489

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316489
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 316489

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316489
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

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QUESTIONS

Action 333338

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333338
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 333338

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333338
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/15/2024

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Santa Fe, NM 87505

QUESTIONS

Action 338661

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/01/2024
Time sampling will commence	08:00 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 338661

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/29/2024

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QUESTIONS

Action 339647

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339647
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/06/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339647

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339647
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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QUESTIONS

Action 339649

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339649
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 339649

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339649
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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QUESTIONS

Action 339652

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339652
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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

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

CONDITIONS

Action 339652

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339652
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

District I

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District IV

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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 339653

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339653
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

District I
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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 339653

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339653
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 339654

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339654
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/10/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 339654

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 339654
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/1/2024

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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS

Action 351081

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351081
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/10/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 351081

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351081
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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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 351082

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351082
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/11/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 351082

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351082
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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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 351083

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351083
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/12/2024
Time sampling will commence	08:03 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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

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

CONDITIONS

Action 351083

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351083
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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Santa Fe, NM 87505

QUESTIONS

Action 351084

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351084
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/13/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District IV
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State of New Mexico
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 351084

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351084
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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Santa Fe, NM 87505

QUESTIONS

Action 351086

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351086
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/14/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 351086

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 351086
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/5/2024

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Santa Fe, NM 87505

QUESTIONS

Action 353624

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353624
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/17/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 353624

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353624
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/12/2024

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Santa Fe, NM 87505

QUESTIONS

Action 353627

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353627
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/18/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 353627

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 353627
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/12/2024

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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS

Action 354629

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354629
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
Time sampling will commence	08:30 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 354629

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354629
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/16/2024

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Santa Fe, NM 87505

QUESTIONS

Action 354733

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354733
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
Time sampling will commence	08:30 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 354733

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 354733
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/17/2024

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QUESTIONS

Action 355560

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355560
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Site Characterization Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/20/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 355560

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355560
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/18/2024

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Santa Fe, NM 87505

QUESTIONS

Action 355570

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355570
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
Time sampling will commence	08:30 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 355570

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 355570
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	6/18/2024

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 391352

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391352
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391352

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391352
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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QUESTIONS

Action 391354

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391354
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391354

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391354
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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QUESTIONS

Action 391357

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391357
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/17/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 391357

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391357
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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Santa Fe, NM 87505

QUESTIONS

Action 391359

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391359
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/18/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 391359

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 391359
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/9/2024

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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 393725

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/21/2024
Time sampling will commence	07:00 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393725

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Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
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QUESTIONS

Action 393728

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393728
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/22/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393728

CONDITIONS

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	Action Number: 393728
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393731

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393731
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/23/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393731

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393731
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393737

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393737
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/24/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393737

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393737
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

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QUESTIONS

Action 393739

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393739
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	80
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/25/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location.

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CONDITIONS

Action 393739

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 393739
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	10/18/2024

APPENDIX K

Archived Reports



SITE CHARACTERIZATION REMEDIATION PLAN

Yates Federal #001

Eddy County, New Mexico

Incident Numbers nAB1428734057 and NRM2011138650

Prepared for:

WPX Energy Permian, LLC.

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 Remediation Plan (SCRP) detailing delineation soil sampling activities at the Yates Federal #001 (Site) associated with two inadvertent releases of crude oil and/or produced water. Based on delineation laboratory analytical results, WPX proposes this SCRCP, which summarizes soil sampling activities, corrective actions, and details remediation objectives to further investigate and rectify environmental impacts at the Site.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit H, Section 34, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.000725°, -103.967483°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1 in Appendix A**).

nAB1428734057

On October 3, 2014, a wellhead leak resulted in approximately 16 barrels (bbls) of crude oil/produced water to be released onto the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 15 bbls of fluids. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on October 10, 2014, and was subsequently assigned Incident Number nAB1428734057. The release area is presented as *Release Area #1* on **Figure 2 in Appendix A**. WPX conducted initial remediation efforts to minimize impacts at the Site, which included the removal and disposal of surficial stained soil. Well files were reviewed to investigate the existence of a reserve pit north of the release area. Based on the review and observations at the Site, it is likely the reserve pit exists as documented on the well drilling permit. As a result, no further delineation was conducted in the area to minimize disturbance of the pit area. A Deferral Report (DR) was then submitted by WPX and denied on March 29, 2023, for a depth to water determination based off a well greater than 0.5 miles from the Site and reported groundwater measurements greater than 25 years old.

Delineation soil sampling activities were conducted by a third-party environmental contractor, and Etech prepared a Remediation Work Plan (RWP) to present corrective actions based on delineation soil sample laboratory analytical results. The NMOCD approved the RWP on November 27, 2023, with the following condition(s):

- Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Submit report via the OCD permitting portal by February 19, 2024.

NRM2011138650

On April 14, 2020, a storage tank overflow resulted in approximately 10 bbls of produced water to be released into the tank battery earthen berm containment. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of fluids. WPX reported the release to the NMOCD on a Form C-141, which was received by the NMOCD on April 17, 2020, and was subsequently assigned Incident Number NRM2011128650. WPX mapped the release extent utilizing a handheld Trimble® Global Positioning System (GPS) unit following the release discovery and is presented as *Release Area #2* on **Figure 2 in Appendix A**. Between April 30 and November 5, 2020, WPX initiated excavation activities, contracted the completion of



a pedestrian karst survey at the Site and surrounding area and continued excavation efforts. A DR was then submitted by WPX and was denied on March 18, 2021, due to the karst potential designation for the Site, which had been based off the karst survey results.

Delineation soil sampling activities were conducted by a third-party environmental contractor, and Etech prepared a Remediation Work Plan (RWP) to present corrective actions based on delineation soil sample laboratory analytical results. The NMOCD denied the RWP on November 15, 2023, for the following reasons:

- The Remediation Plan is Denied. This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. You would need to send your karst study to the BLM and try to get high karst potential downgraded to medium in this particular area. If they do make changes to the map, let us know and we will honor their decision. AOC 1 and 2 have not been delineated. All sample points on the sitemap should be labelled. Confirmation floor samples will need to be taken every 200 ft². Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. The work will need to occur in 90 days after the report has been reviewed.

Due to the extent of planning and coordination to continue delineation soil sampling activities, an extension was requested and granted for May 9, 2024. A sundry notice was submitted via Form 3160-5 (Sundry Notices and Reports on Wells) to proceed with delineation activities and granted by BLM on January 16, 2024. Previous remediation summaries may be referenced in the original reports submitted to the NMOCD.

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.

The closest well with water data is State of Texas Tracking #356414, located approximately 0.4 miles west to southwest of the Site (**Figure 1A** in **Appendix A**). The well has a reported depth to groundwater of 58 feet below ground surface (bgs) from 2014. Based on this information and findings from the regional water well review, groundwater depth at the Site is estimated to be between 51 and 100 feet bgs. All well records referenced for depth to groundwater determination are included in **Appendix B**.

Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a high potential karst area; however, a pedestrian karst survey was conducted and confirmed the absence of surface karst features and the limited likelihood of shallow subsurface karst features. No surface karst features were identified after a thorough desktop review by a karst expert or



discovered within the 30.4 acres covered during the pedestrian karst survey. The karst survey is included in **Appendix C**.

Based on the initial desktop review, other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and estimated regional 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	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

PREVIOUS DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS

As documented in the previously submitted RWP, between May 12, 2022, and November 9, 2022, a-third party environmental consultant advanced a total of two delineation potholes (PH01 and PH02) via mechanical equipment within the tank battery earthen berm containment. Delineation activities were driven by field screening soil samples for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each pothole: at least one sample representing the highest observed field screening concentrations and one sample representing the pothole terminus.

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

Laboratory analytical results for both PH01 and PH02 indicated BTEX and TPH concentrations were below the laboratory detection limit, and chloride concentrations for all soil samples collected from PH02 were below the Site Closure Criteria. Chloride concentrations for PH01 were compliant with Site Closure Criteria once the pothole reached 15 feet bgs. Supplemental documentation associated with the delineation summary can be referenced in the original RWP.

CONTINUED DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS

From February 26 to May 3, 2024, Etech oversaw continued delineation activities to assess the presence or absence of residual impacts associated with the release areas. Five boreholes (BH01 through BH05) advanced via rotary drill rig and six potholes (PH01 through PH06) advanced via hand shovel were driven by field screening soil samples for VOCs and chloride, as previously described. Boreholes were collected for laboratory analysis of COCs, averaging at 5-foot intervals starting at 0.5-foot bgs and up to 35 feet bgs. Pothole soil samples were collected at 0.5-foot and 1-foot bgs. Field screening results and soil descriptions were denoted on soil sampling logs, which are included as **Appendix D**. 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 E**.



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 for all delineation soil samples indicated BTEX concentrations were below the laboratory detection limit; TPH exceedances were detected at delineation soil sampling locations BH02 (0.5 feet bgs, 4 feet bgs, and 10 feet bgs) and BH04 (0.5-foot bgs), which are characterized by concentrations ranging from 229 mg/kg to 1,820 mg/kg; chloride concentrations exceedances were detected at various depths at all delineation soil sampling locations advanced within the release areas, which are characterized by concentrations ranging from 671 mg/kg to 10,400 mg/kg. The concentrations of all analyzed COCs for all terminus delineation soil samples were below the Site Closure Criteria, except sampling location BH04. Laboratory analytical results indicated all concentrations of the COCs for delineation soil samples surrounding the release areas were below the Site Closure Criteria.

Laboratory analytical results are summarized in **Table 1** as **Attachment F**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment G**.

PROPOSED REMEDIATION PLAN

Based on the delineation soil sample laboratory analytical results, the following conclusions regarding the release are presented:

- As referenced previously in the RWP, the extent for *Release Area #1* was estimated, and as such, the outer estimated extent of *Release Area #1* has been combined with the GPS mapped *Release Area #2* to make one collective release area, henceforth referenced in this SCRP as the Area of Concern (AOC) (**Figure 2** in **Appendix A**).
- The Site is in a BLM designated high karst potential area; however, no voids were encountered during delineation drilling activities for boreholes advanced within the AOC, up to 35 feet bgs.
- Based on laboratory analytical results, BTEX and benzene concentrations were below the Site Closure Criteria for all analyzed soil samples, however, TPH concentrations exceedances above the Site Closure Criteria were present within the AOC associated with soil sampling locations BH02 and BH04. TPH concentrations were below the Site Closure Criteria for all other delineation soil samples.
- Based on laboratory analytical results for previous and current delineation soil samples, chloride concentrations exceeding the Site Closure Criteria exist at varying depths and up to 35 feet bgs within the AOC.
- Concentrations of all the COCs for the terminus sample from all soil sampling locations were below the Site Closure Criteria, except BH04, providing nearly complete vertical delineation.
- Concentrations of all the COCs for delineation soil samples from sampling locations PH01 through PH06 were below the Site Closure Criteria at all sampled depths and will provide sufficient immediate horizontal delineation.

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

- Due to the absence of surficial and subsurface karst features at the Site, via observation during a pedestrian karst survey and confirmation drilling activities, WPX proposes to re-evaluate and further supplement the potential absence of subsurface karst via an Electrical Resistivity Imaging (ERI) survey. A survey of the Site and a 200-meter buffer in conjunction with existing and additional subsurface data gathered through the advancement of delineation soil sampling activities will be presented to determine the following:



- i. If the ERI survey is negative for karst features, WPX will coordinate with the BLM and propose that the Site be downgraded to medium karst potential and subsequently update the Site Closure Criteria associated with groundwater greater than 100 feet bgs according to Table I in NMAC 19.15.29.12. The current data will be re-evaluated under consideration of the updated Site Closure Criteria, and a subsequent SCRP addendum will be prepared detailing the next course of remedial actions to address the presence of soil impacts at the Site.
- If the ERI survey is positive for karst features, WPX proposes to continue delineation activities to further define the boundaries of the AOC in agreeance to the current Site Closure Criteria while simultaneously investigating the existence of background chloride concentrations. Due to the observed oscillation of chloride concentrations existing from ground surface up to 35 feet bgs, WPX proposes to investigate naturally occurring background concentrations for chloride from a location(s) measuring no less than 50 feet but no greater than 100 feet from the AOC extent (**Figure 3 in Appendix A**).
- i. Soil samples will be collected and handled as described above and analyzed by an accredited laboratory for the COCs.
- If laboratory analytical results indicate naturally occurring background chloride concentrations are greater than 600 mg/kg, WPX proposes to use the greatest chloride concentration and the lowest chloride concentration as an acceptable range for naturally occurring background concentrations at the Site. As such, the range of chloride concentrations will be requested to drive remediation efforts and the data presented in this report will be re-evaluated under the consideration of naturally occurring background concentrations for chloride.
- However, if laboratory analytical results indicate naturally occurring background concentrations of chloride do not exceed 600 mg/kg, WPX proposes to continue delineation activities to define the AOC, driven by the Site Closure Criteria.
- Upon receipt and review of excavation confirmation soil sample laboratory analytical results, WPX will determine the appropriate measure of corrective actions that will include:
 - i. Preparing a SCRP addendum detailing the next course of remedial actions to address the presence of soil impacts at the Site driven by background chloride concentrations, based off an estimated lateral and vertical extent of impacted soil from soil sampling activities.
 - or -
 - ii. Preparing a SCRP addendum detailing the next course of remedial actions to address the presence of soil impacts at the Site under the current Site Closure Criteria, based off an estimated lateral and vertical extent of impacted soil from soil sampling activities.

WPX believes the corrective actions detailed in this SCRP will meet requirements set forth in NMAC 19.15.29.13 to be protective of human health, the environment and groundwater. As such, WPX respectfully requests approval of this SCRP from NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com. **Appendix H** provides correspondence emails and notification receipts associated with the subject release. Previous remediation activities for the subject release can be referenced in the previously submitted DR and RWP in **Appendix I**.



Sincerely,

eTECH Environmental and Safety Solutions, Inc.

A handwritten signature in black ink that reads "Anna Byers".

Anna Byers
Senior Geologist

A handwritten signature in black ink that reads "Joseph S. Hernandez".

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 Map
Figure 1A: Site Characterization – Groundwater
Figure 1B: Site Characterization – Surface Receptors
Figure 1C: Site Characterization – Subsurface Receptors
Figure 2: Delineation Soil Sample Locations
Figure 3: Proposed Background Soil Sampling Locations
- Appendix B:** Referenced Well Records
- Appendix C:** Pedestrian Karst Survey Report
- Appendix D:** Soil Sampling Logs
- Appendix E:** Photographic Log
- Appendix F:** Tables
- Appendix G:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix H:** Notifications and Correspondence
- Appendix I:** Archived Reports

APPENDIX A

Figures





FIGURE 1A
**Site Characterization Map
 Groundwater**

WPX ENERGY PERMIAN, LLC
 Yates Federal #001
 Unit H Sec 34 T26S R29E
 Eddy County, New Mexico

eTECH



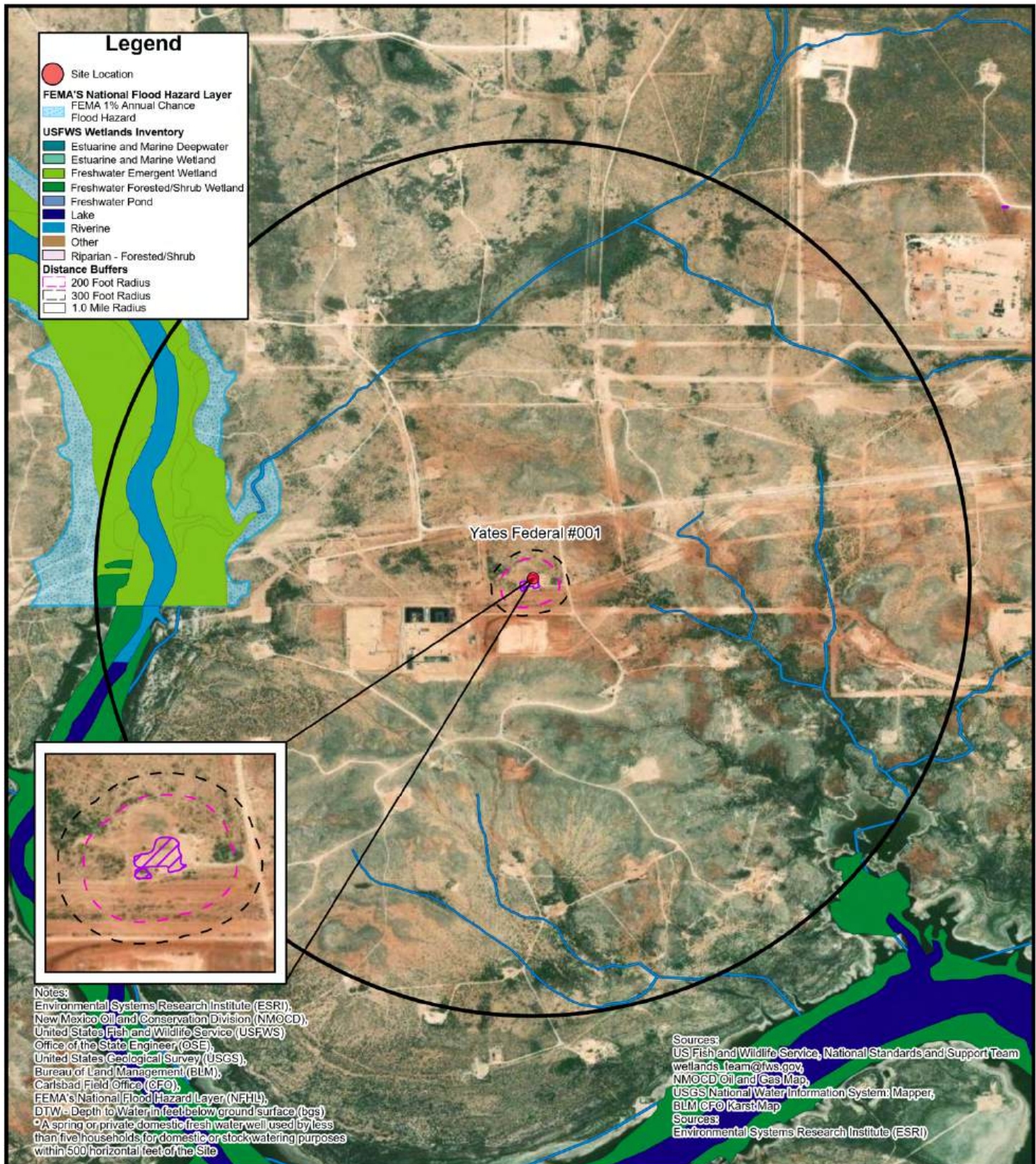


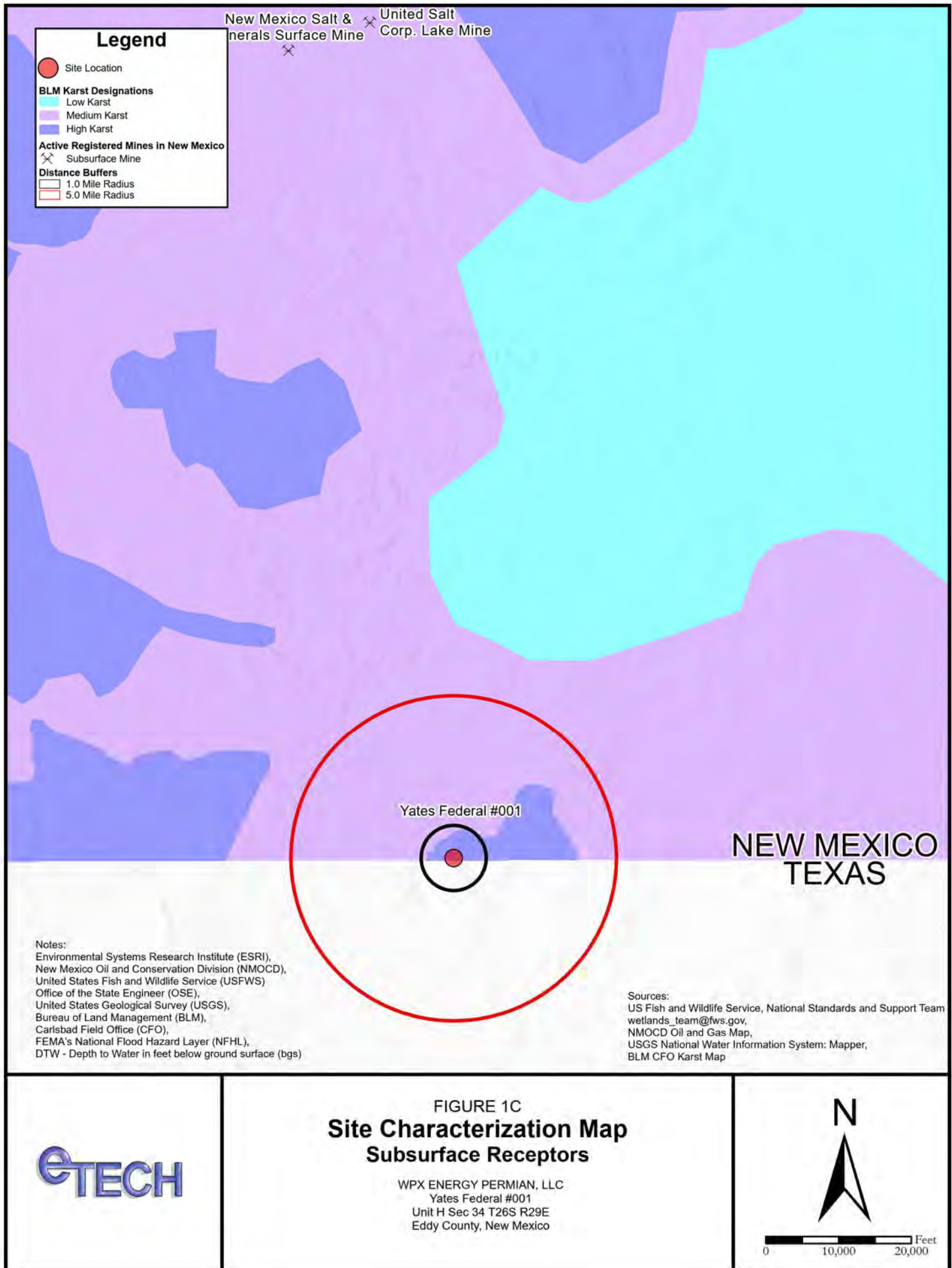
FIGURE 1B

Site Characterization-Surficial Receptors

WPX ENERGY PERMIAN, LLC
 Yates Federal #001
 Unit H Sec 34 T26S R29E
 Eddy County, New Mexico

eTECH





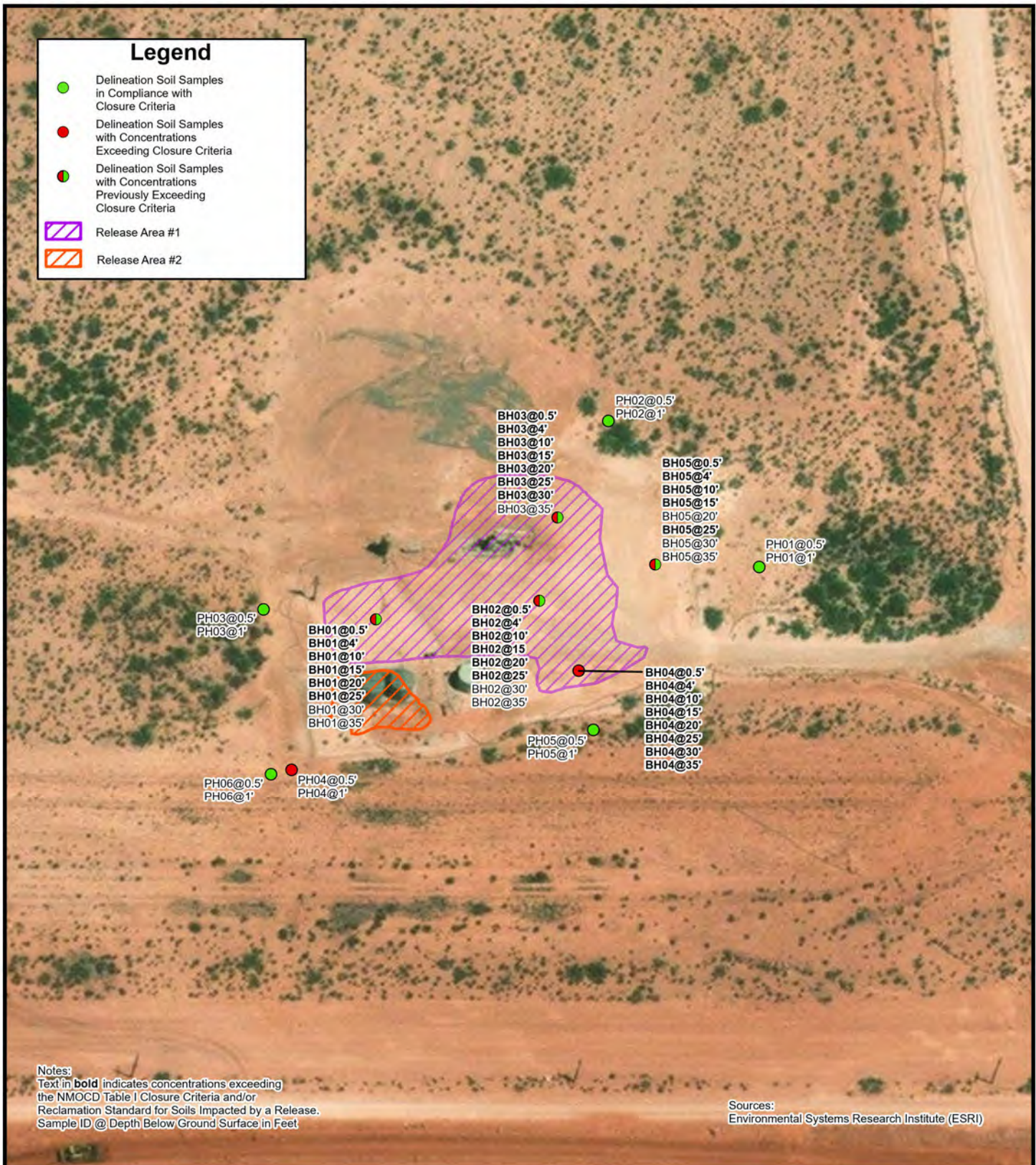


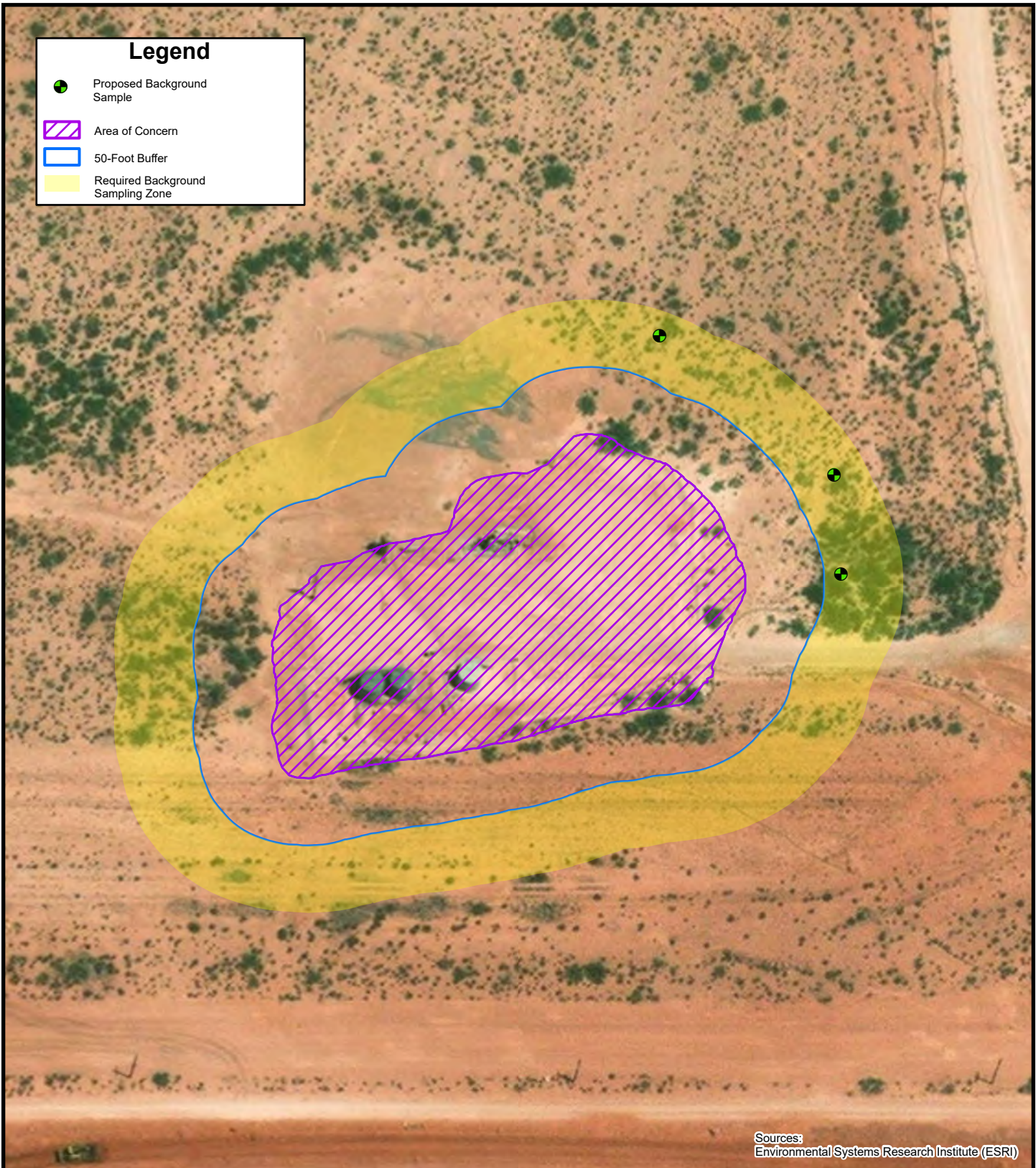
FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
 Yates Federal #001
 Unit H Sec 34 T26S R29E
 Eddy County, New Mexico



0 55 110 Feet

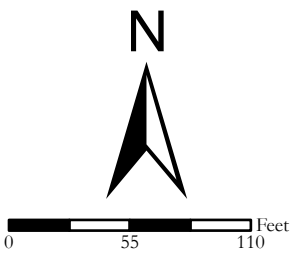


Sources:
Environmental Systems Research Institute (ESRI)



FIGURE 3
Background Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico



APPENDIX B

Referenced Well Records

STATE OF TEXAS WELL REPORT for Tracking #356414

Owner: BHP BILLITON PETROLEUM	Owner Well #: JOHNSON#4-2
Address: 115 W 3RD ST, STE 208 PECOS, TX 79772	Grid #: 46-01-1
Well Location: 13.5 mi N of ORLA, 3.3 mi E of HWY 285, & .1 mi S of N MEX line ORLA, TX 79770	Latitude: 31° 59' 54" N
	Longitude: 103° 58' 25" W
Well County: Loving	Elevation: 2866 ft. above sea level
Type of Work: New Well	
Proposed Use: Rig Supply	

Drilling Start Date: **3/4/2014** Drilling End Date: **3/5/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	303

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed; CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	20	303	Gravel	1/4"

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	5 CEMENT

Seal Method: **HAND**

Distance to Property Line (ft.): **5000+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

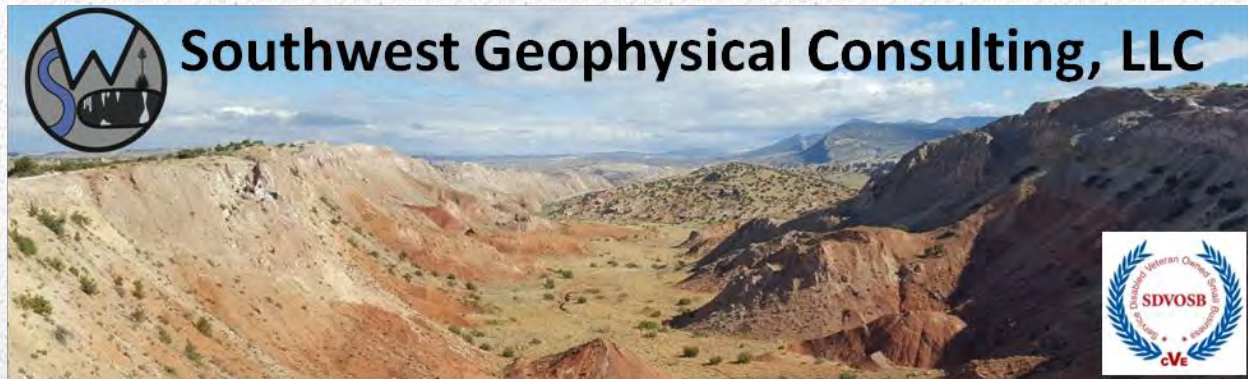
Method of Verification: **OWNER INFO**

Surface Completion: **Surface Sleeve Installed**

Water Level: 58 ft. below land surface on 2014-03-05	Measurement Method: Unknown
Packers: No Data	
Type of Pump: No Data	
Well Tests: Jetted	Yield: 30+ GPM

APPENDIX C

Pedestrian Karst Survey



Cave and Karst Resource Inventory Report Yates Federal #001 Eddy County, New Mexico

**Prepared for:
LT Environmental, Inc.
3300 North A Street Building 1, Unit 222
Midland, TX 79705**

- ☐ **Positive – HKOZ remediation process required**
- ☒ **Negative – Oil Conservation Division may approve MKOZ remediation process at their discretion**

September 14, 2020

LTE-022-20200901

Published by:

Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
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MMXX

LTE-022-20200901

i

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1.0 INTRODUCTION

A pedestrian surface karst survey was commissioned by LT Environmental, Inc. (hereinafter referred to as "the client") on September 01, 2020 for the purpose of determining what, if any, karst-related surface features are present near the Yates Federal #001 pad (hereinafter termed "Yates") and to provide guidance on the level of remediation required. This study does not include subsurface features, which would require a geophysical survey. The study area that this report covers is in a **HIGH** karst occurrence zone and located within Bureau of Land Management - Carlsbad Field Office and privately managed lands.

As indicated in section **1.3 Affected Environment**, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during remediation by careful excavation of the spill site and the control of site hydrology. The Owner/Developer must recognize that a risk of sinkhole-induced damage to infrastructure remains even after site remediation. The Owner/Developer must evaluate the risks and attendant costs of performing a geophysical survey prior to remediation, versus no geophysical survey, and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting, LLC can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location, description, photos, and boundaries of any surface karst-related features within a 200-meter buffer surrounding the Yates pad as provided by the client via email on September 01, 2020.

1.2 Summary of Findings

No surface karst features were located within the pedestrian survey area. However, unknown hidden features may still exist beneath the surface. Caution should be exercised during any remediation efforts.

1.3 Affected Environment

The Yates 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.

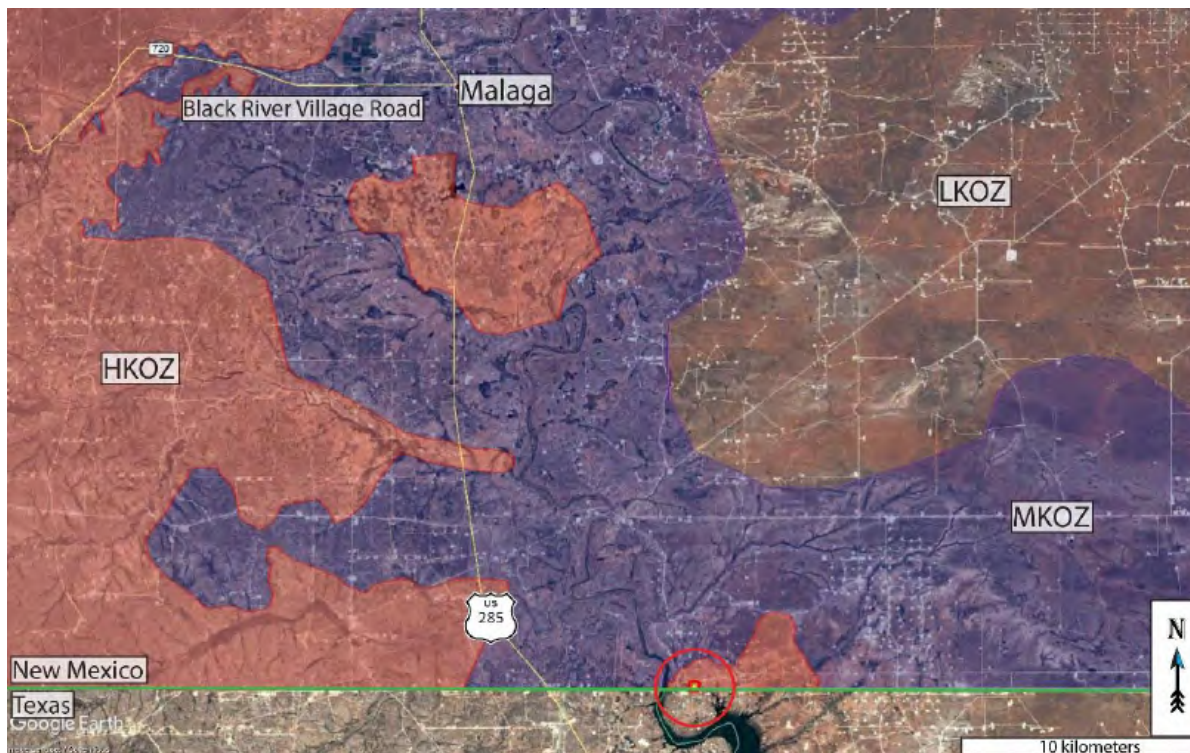


Figure 1: Karst occurrence overview. Red transparent area is a high karst occurrence zone; blue transparent area is a medium karst occurrence zone; no color is a low karst occurrence zone. Study area is the red outlined area in the lower-middle portion of the image. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

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

A high karst occurrence zone is defined as areas in known soluble rock types that contain 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^[2].

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The Yates project site is located in Eddy County, New Mexico, 26.7 kilometers (16.6 miles) south-southeast of Malaga, New Mexico, along the Texas-New Mexico border (**Figure 1** and **Figure 2**). The survey area is located within section 34 of NM T26S R29E. This area is within the Chihuahuan Desert Thornscrub defined by the Southwestern Regional ReGAP Vegetation map^[3] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca with very good visibility in most locations. See section **2.2 Local Geology** for the geology of the area. The entirety of the project site and surrounding survey area is within a HKOZ (**Figure 1**). Seventy-two percent of the survey area is located in BLM-CFO managed lands, while the remaining 28% is within privately managed lands in Texas (**Figure 2**).



Figure 2: Land ownership overview. Yellow transparent area: BLM-CFO managed land. Blue transparent area: New Mexico State Land Office managed land. No color: private land. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.2 Local Geology

The area surveyed for the Yates project is located at an elevation of 880 meters (2,887 feet), ± 3 meters (10 feet), within an area underlain by the Permian Rustler and Dewey Lakes Formations (Pru and Pdl). The area is mantled by thin gypsiferous soils, and Quaternary alluvial sands and gravels (Qal and Qp)^[4] between 0 and 3 meters in depth (**Figure 3**). The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum^[5], and contains both karst-forming strata (the Forty-niner and Tamarisk Members) and two shallow aquifers (the Magenta and Culebra Dolomite Members). The Pru overlies the Permian Salado Formation (Psl, not shown on map), a layer of extremely soluble halite which can easily be dissolved to create caves, sinkholes, and other karst features^[6]. The Pru may be subject to collapse if a void has developed beneath it in the Salado Formation. The survey area is covered by the Geologic Map of New Mexico (2003) at 1:500,000 scale^[4], and the Geologic Atlas of Texas - Hobbs Sheet (1976) at 1:250,000 scale.



Figure 3: Geology overview. Pru: Permian Rustler Formation. Pdl/Pqr: Permian Dewey Lake Formation (formerly known as the Permian Quartermaster Formation). Qp: Quaternary piedmont deposits. Qal: Quaternary alluvium. Red polygon is the study area. Yellow polygon is the YATES pad perimeter. Map credit: Geologic Map of New Mexico (2003) at 1:500,000 scale, and Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.3 Description of Survey

For this survey 4 lines were walked in a raster pattern at 50-meter (165 feet) intervals in the designated area, providing 90 to 100% coverage for features greater than 50 centimeters (20 inches) in diameter (**Table 1, Figure 4**).

The northeast section of the study area was covered during a previous survey completed by Dave Decker on September 14, 2019. The remainder of the study area within New Mexico was surveyed by Garrett Jorgensen on September 09, 2020. While permission was obtained to enter the Texas portion of the study area, this information was not received by the field geologist (Mr. Jorgensen) by the time of the survey; therefore, this section was not covered. The total distance walked was 3.3 kilometers (2.0 miles) and the total area covered was 0.12 square kilometers (30.4 acres).

Table 1: Survey Track Data Files

File Name	Surveyor	Date	Length (km/miles)	Area (km ² /Ac)
SWGSrv_clipped.kmz	Decker	09/14/2019	1.82/1.13	0.12/30.4
YatesSrv_D1S1.kmz	Jorgensen	09/09/2020	1.44/0.89	



Figure 4: Survey overview. Red polygon is the study area. Shaded red polygon is the study area within Texas. Yellow polygon is the Yates well pad. Blue wavy lines are the actual survey lines walked (Dark blue: survey by Garrett Jorgensen. Light blue: Survey by Dave Decker). Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

The area in Texas that was not covered by the pedestrian karst survey is located within an area where the Dewey Lake red beds are exposed at the surface (which, as stated in section **2.2 Local Geology**, is a medium to fine-grained sandstone that does not support karst formation). A close inspection of the satellite imagery and a check of the New Mexico Cave and Karst Database revealed no previously known features in this area, and I am confident in stating that there are no surface karst features located within this zone.

2.4 Description of Karst Features

No surface karst features were located within the boundary of the pedestrian survey area for the Yates project site.

3.0 RECOMMENDATIONS

No surface karst features were located during this survey. Based on these findings, allowing use of medium karst occurrence zone (versus high karst occurrence zone) spill remediation procedures may be considered by the Oil Conservation Division within the survey area. Confirmation to use a lower remediation level should be received from the Oil Conservation Division before proceeding.

Vigilance during remediation is paramount. If voids are encountered during trenching or digging contact the New Mexico State Oil Conservation Division if on State land, and the Bureau of Land Management – Carlsbad Field Office at (575) 234-5972 if on BLM land and request an on-site investigation from a karst expert. A karst consultant can generally be on site in Eddy County within five hours.

4.0 REFERENCES

1. Rybacki, K., *Karst Potential Map*. CFO Basemap, 2019.
2. Scholle, P.A., *Geologic Map of New Mexico*. 2003. (1:500,000).
3. Johnson, K.S., *Evaporite Karst in the United States*. Carbonates and Evaporites, 1997. **12(1)**: p. 2-14.
4. Martinez, J.D., K.S. Johnson, and J.T. Neal, *Sinkholes in Evaporite Rocks*. American Scientist, 1998. **86(1-2)**: p. 38-51.
5. Whitehead, W. and C. Flynn, *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. 2017, Carlsbad, NM: Bureau of Land Management, Carlsbad Field Office.
6. Vine, J.D., *Surface Geology of Nash Draw Quadrangle Eddy County New Mexico*, 1963.

5.0 GLOSSARY OF TERMS

BLM	Bureau of Land Management
CFO	Carlsbad Field Office
cave	A natural opening at the surface, large enough for a person to enter.
GPS	Global Positioning System
NMSLO	New Mexico State Land Office
OCD	Oil Conservation Division
playa lake	A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
pseudokarst	Karst-like terrain that forms through processes other than dissolution.
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.
WGS	World Geodetic System



APPENDIX D

Soil Sampling Logs

								Sample Name: BH01		Date: 02/26/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: HSA	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: 3.75"		Total Depth: 35 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	3,452	0.1	No	BH01	0.5	0	SP-SM	(0-27') SAND, dry, light brown, poorly graded with silt, very fine to fine grain, trace small subrounded gravel (1-10mm), trace organics, no stain, no odor. @ 3' Color change to reddish brown, no organics @ 9' Color change to dark reddish brown, trace grey reduction spots (1-2mm), trace crystalline gypsum grains (>1mm) @ 14' increase in reduction spots and sizes (1-5mm) some clay. @ 22' larger white crystalline gypsum inclusions, decreased consolidation, less reduction spots. Note: @ 35' split spoon rejection due to consolidation. Cutting used for field screening/ description.			
Dry	1,628	0.2	No	BH01	4	5					
Dry	996	0.1	No	BH01	10	10					
Dry	1,148	0.2	No	BH01	15	15					
Dry	924	0	No	BH01	20	20					
Dry	736	0.1	No	BH01	25	25					
Dry	680	0	No	BH01	30	30	SM-ST				
Dry	528	0	No	BH01	35	35					
Total Depth											



Sample Name: BH02 Date: 02/26/2024
 Site Name: Yates Federal #1
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.0009365, -103.9669540 Logged By: EK Method: HSA
 Hole Diameter: 3.75" Total Depth: 35 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	3,452	0.1	No	BH02	0.5	0	SP-SM	(0-9') SAND, dry, tan - light brown, poorly graded with silt, very fine to fine grain, trace small subrounded gravel (1-10mm), trace clay, no stain, no odor.
Dry	1,628	0.2	No	BH02	4	5		@ 3' Color change to reddish brown, increased consolidation, decrease in silt.
Dry	996	0.1	No	BH02	10	9	SP-ST	(9-28') SANDSTONE, dry, reddish brown, poorly graded, moderate consolidation, trace grey reduction spots (1-5mm), no stain, no odor.
Dry	1,148	0.2	No	BH02	15	10		Note: @9' Split spoon sample collection decreasing due to consolidation.
Dry	924	0	No	BH02	20	15		Note: @20' Split spoon sample rejected, cutting used for field screening/ descriptions.
Dry	736	0.1	No	BH02	25	20		@25' No reduction spots.
Dry	680	0	No	BH02	30	25		(28-35) SAND, dry, reddish brown, poorly graded with silt, very fine-fine, abundant small grey reduction spots (1-4mm), some clay, no stain, no odor.
Dry	528	0	No	BH02	35	30	SP-SM	@34 Some white crystalline gypsum inclusion (1-3mm) decrease in reduction spots.
Dry						35		

Total Depth



Sample Name: BH03 Date: 02/26/2024 & 02/27/2024
 Site Name: Yates Federal #1
 Incident Number: nAB1428734057, nRM2011138650
 Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.0009365, -103.9669540

Logged By: EK Method: HSA
 Hole Diameter: 3.75" Total Depth: 35 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	3,452	0.1	No	BH03	0.5	0	SP-SM	(0-18') SAND, dry, light brown, poorly graded with some silt, very fine to fine grain, abundant subround gravel (1mm-2cm), no stain, no odor.
Dry	1,628	0.2	No	BH03	4	5		@ 3' Color change to dark reddish brown, increased consolidation, trace small grey reduction spots, trace white crystalline gypsum inclusions and gains.
Dry	996	0.1	No	BH03	10	9 10		@ 9' Decreased consolidation.
Dry	1,148	0.2	No	BH03	15	15		@ 14' Color change to tan-light brown with no reduction spots. @ 15' Color change to reddish brown with reduction spots.
Dry	924	0	No	BH03	20	18 20	SP-ST	(18-28') SANDSTONE, dry, dark reddish brown, fine crystalline, moderately consolidated, no stain, no odor. @ 20' Some white crystalline gypsum inclusions (2-10mm), decreased consolidation.
Dry	736	0.1	No	BH03	25	25		@24' Color change to reddish brown, abundant small to medium grey reduction spot (1-3mm), small decrease in consolidation, trace clay.
Dry	680	0	No	BH03	30	28 30	SP-SM	(28-35) SAND, dry, reddish brown.
Dry	528	0	No	BH03	35	35		

Total Depth



Sample Name: BH04

Date: 02/27/2024

Site Name: Yates Federal #1

Incident Number: nAB1428734057, nRM2011138650

Job Number: 18154

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: HSA

Site Coordinates: 32.0009365, -103.9669540

Hole Diameter: 3.75"

Total Depth: 35 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	3,452	0.1	No	BH04	0.5	0	SP-SM	(0-9') SAND, dry, tan - light brown, poorly graded with silt, very fine to fine grain, trace small subrounded gravel (1-4mm), no stain, no odor.
Dry	1,628	0.2	No	BH04	4	5		@ 3' Color Change to reddish brown, light brown-pink mottling, abundant small -medium grey reduction spots (1-3mm), some white crystalline gypsum inclusions and grains.
Dry	996	0.1	No	BH04	10	10	SM-ST	@ 8' Trace large yellow- grey sand inclusions (1-3cm)
Dry	1,148	0.2	No	BH04	15	15		(9-35') SILTSTONE, dry, reddish brown, poorly graded with some of clay, moderately consolidated white some very fine gypsum vein crystalline, trace of tan sandstone sandstone inclusion (1-2cm).
Dry	924	0	No	BH04	20	20		@ 14' color change to dark reddish brown, decrease of gypsum inclusions and reduction spots.
Dry	736	0.1	No	BH04	25	25		@19' Color change to reddish brown, increase of silt trace of yellow pieces of sand inclusion (2-3cm)
Dry	680	0	No	BH04	30	30		@ 30' Decrease of silt
Dry	528	0	No	BH04	35	35		
Total Depth								

				Sample Name: BH05		Date: 02/27/2024		
				Site Name: Yates Federal #1				
				Incident Number: nAB1428734057, nRM2011138650				
				Job Number: 18154				
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: EK		Method: HSA		
Site Coordinates: 32.0009365, -103.9669540				Hole Diameter: 3.75"		Total Depth: 35 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	3,452	0.1	No	BH05	0.5	0	SP-SM	(0-1') SAND, dry, light brown, poorly graded with trace silt, very fine to fine grain, poorly consolidated, no stain, no odor.
Dry	1,628	0.2	No	BH05	4	5		(1-10') Sandstone, dry, light reddish brown, poorly graded very fine to fine, well consolidated, no stain, no odor.
Dry	996	0.1	No	BH05	10	10	SM-ST	(10-34') Siltstone, dry, reddish brown, poorly graded with some of clay, moderately consolidated white some very fine gypsum vein crystalline, trace of tan sandstone sandstone inclusion (1-2cm).
Dry	1,148	0.2	No	BH05	15	15		(34-35') SAND, dry, reddish brown, poorly graded, very fine to fine, poorly consolidated, no stain, no odor.
Dry	924	0	No	BH05	20	20		
Dry	736	0.1	No	BH05	25	25		
Dry	680	0	No	BH05	30	30		
Dry	528	0	No	BH05	35	35	SP-SM	
Total Depth								

								Sample Name: PH01		Date: 04/18/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: N/A		Total Depth: 1 foot	
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	No	PH01	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.			
Dry	<116	0	No	PH01	1	1					
Total Depth											

								Sample Name: PH02		Date: 04/18/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: N/A		Total Depth: 1 foot	
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	164	0	No	PH02	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.			
Dry	<116	0	No	PH02	1	1					
Total Depth											

								Sample Name: PH03		Date: 04/18/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: N/A		Total Depth: 1 foot	
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	164	0	No	PH03	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.			
Dry	188	0	No	PH03	1	1					
Total Depth											

					Sample Name: PH04		Date: 04/18/2024	
					Site Name: Yates Federal #1			
					Incident Number: nAB1428734057, nRM2011138650			
					Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540					Hole Diameter: N/A		Total Depth: 1 foot	
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	164	0	No	PH04	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.
Dry	188	0	No	PH04	1	1		
Total Depth								

								Sample Name: PH05		Date: 04/18/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: N/A		Total Depth: 1 foot	
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	No	PH05	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.			
Dry	<116	0	No	PH05	1	1					
Total Depth											

								Sample Name: PH06		Date: 05/03/2024	
								Site Name: Yates Federal #1			
								Incident Number: nAB1428734057, nRM2011138650			
								Job Number: 18154			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EK		Method: Shovel	
Site Coordinates: 32.0009365, -103.9669540								Hole Diameter: N/A		Total Depth: 1 foot	
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	No	PH06	0.5	0	SP-SM	(0-1') SAND, dry, reddish brown, poorly graded with trace silt, very fine to fine grain, trace organic, no stain, no odor.			
Dry	<116	0	No	PH06	1	1					
Total Depth											

APPENDIX E

Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #001

Incident Numbers nAB1428734057 and NRM2011138650

**Photograph 1****Date: 02/26/2024**

Description: Southeastern view of delineation activities near BH01.

**Photograph 2****Date: 02/26/2024**

Description: Southwestern view of delineation activities near BH01.

**Photograph 3****Date: 02/26/2024**

Description: Southwestern view of delineation activities near BH02.

**Photograph 4****Date: 02/26/2024**

Description: Northwestern view of delineation activities near BH03.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #001

Incident Numbers nAB1428734057 and NRM2011138650

**Photograph 1****Date: 04/18/2024**

Description: Northwestern view of delineation activities near PH01.

**Photograph 2****Date: 04/18/2024**

Description: Northwestern western view of delineation activities near PH02.

**Photograph 3****Date: 04/18/2024**

Description: Southwestern view of delineation activities near PH03.

**Photograph 4****Date: 05/03/2024**

Description: Southeastern view of delineation activities near PH06.

APPENDIX F

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
Delineation Soil Samples - Incident Number nAB1428734057 and NRM2011138650									
BH01	02/26/2024	0.5	<0.0250	<0.0500	<20.0	37.9	<50.0	37.9	10,400
BH01	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,180
BH01	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,300
BH01	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,590
BH01	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,800
BH01	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	797
BH01	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	382
BH01	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	588
BH02	02/26/2024	0.5	<0.0250	<0.0500	<20.0	635	1180	1,820	1,400
BH02	02/26/2024	4	<0.0250	<0.0500	<20.0	852	1060	1,910	347
BH02	02/26/2024	10	<0.0250	<0.0500	<20.0	104	125	229	286
BH02	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,280
BH02	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,130
BH02	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	777
BH02	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	537
BH02	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	476
BH03	02/26/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	5,770
BH03	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,870
BH03	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,170
BH03	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,760
BH03	02/26/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,580
BH03	02/26/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,480
BH03	02/26/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH03	02/26/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	588



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
BH04	02/26/2024	0.5	<0.0250	<0.0500	<20.0	179	260	439	4,090
BH04	02/26/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,340
BH04	02/26/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,470
BH04	02/26/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,750
BH04	02/27/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,470
BH04	02/27/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,100
BH04	02/27/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	853
BH04	02/27/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	665
BH05	02/27/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,740
BH05	02/27/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,370
BH05	02/27/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,120
BH05	02/27/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,410
BH05	02/27/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	597
BH05	02/27/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	671
BH05	02/27/2024	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	576
BH05	02/27/2024	35	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	392



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
PH01	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	p	<50.0	121
PH01	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	68.1
PH02	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	131
PH02	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	26.6
PH03	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	114
PH03	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	156
PH04	04/18/2024	0.5	<0.0250	0.0566	<20.0	35.4	65.6	101	203
PH04	04/18/2024	1	<0.0250	0.0899	<20.0	47.9	77.8	126	237
PH05	04/18/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	53.9
PH05	04/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	30.7
PH06	05/03/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
PH06	05/03/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0

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[†] The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX G

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402258

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402258
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 14:11
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E402258-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 4'	E402258-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:11:43PM

BH01 0.5'

E402258-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		110 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	37.9	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	10400	200	10	02/28/24	02/28/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:11:43PM

BH01 4'

E402258-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		110 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		108 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	3180	20.0	1	02/28/24	02/28/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Volatile Organic Compounds by EPA 8260B

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2)

Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:11:43PM

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 (2409051-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409051-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	300	20.0	250	48.0	101	80-120	0.716	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:11

- 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402258		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TL	State				
Phone: 832-541-7719					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
10:00	02.26.24	S	1	BH01	1	0.5'							X						
10:10	02.26.24	S	1	BH01	2	4'							X						
02/27/24																			
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	Lab Use Only											
[Signature]		02/27/24	6:00	[Signature]		2-27-24	1005	Received on ice: (Y) / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		2-27-24	1628	[Signature]		2-27-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		2-27-24	2400	[Signature]		2/28/24	0800	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 2/28/2024 11:05:07AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/28/24 08:00
 Date Logged In: 02/28/24 08:44
 Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402258
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402259

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/13/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402259
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/13/24 15:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 10'	E402259-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 15'	E402259-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 20'	E402259-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH01 25'	E402259-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 10'

E402259-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		111 %	70-130	02/28/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	02/28/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
<i>Surrogate: n-Nonane</i>		106 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	1300	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/13/2024 3:21:05PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH01 15'

E402259-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	02/28/24	03/01/24	
Surrogate: Toluene-d8		105 %	70-130	02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		111 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1590	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/13/2024 3:21:05PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH01 20'

E402259-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2409046	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		106 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		99.5 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1800	40.0	2	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/13/2024 3:21:05PM

BH01 25'

E402259-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/05/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/05/24	
Toluene	ND	0.0250	1	02/28/24	03/05/24	
o-Xylene	ND	0.0250	1	02/28/24	03/05/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/05/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130	02/28/24	03/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	02/28/24	03/05/24	
Surrogate: Toluene-d8		107 %	70-130	02/28/24	03/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane		102 %	50-200	02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409067
Chloride	797	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Volatile Organic Compounds by EPA 8260B

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2)

Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)					Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24		
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/13/2024 3:21:05PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/13/24 15:21

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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 - 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.	Bill To	Lab Use Only		TAT				EPA Program							
Project: Yates Federal #1		Attention: Jim Raley	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.	E 402259	01058-0007				5 day TAT							
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	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719		Email: jim.raley@divn.com									NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com	WO: 21181897														
	Incident ID: nAB1428734057, nRM2011138650														

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	BGDOC NM	GDOC TX	Remarks
10:20	02.26.24	S	1	BH01	1	10'						X		
10:30	02.26.24	S	1	BH01	2	15'						X		
10:40	02.26.24	S	1	BH01	3	20'						X		
10:50	02.26.24	S	1	BH01	4	25'						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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	02/27/24	06:00	<i>Michelle Gyle</i>	2-27-24	1005
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Michelle Gyle</i>	2-27-24	1628	<i>Andrew</i>	2-27-24	1730
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Andrew</i>	2-27-24	2400	<i>AQ</i>	2/28/24	0800

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

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

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

Page 1325 of 1755

Envirotech Analytical Laboratory

Printed: 2/28/2024 11:06:59AM

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
 Phone: (539) 573-4018
 Email: devon-team@etecheuv.com

Date Received: 02/28/24 08:00
 Date Logged In: 02/28/24 08:50
 Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402259
 Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402269

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402269
Date Received: 2/28/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 30'	E402269-01A	Soil	02/26/24	02/28/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:27:44PM

BH01 30'

E402269-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/02/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/02/24	
Toluene	ND	0.0250	1	02/29/24	03/02/24	
o-Xylene	ND	0.0250	1	02/29/24	03/02/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/02/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/02/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/02/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/02/24	
Surrogate: Toluene-d8	87.8 %	70-130		02/29/24	03/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/02/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/02/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/02/24	
Surrogate: Toluene-d8	87.8 %	70-130		02/29/24	03/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.0 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	382	100	5	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409068-BLK1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:27:44PM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:27

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 3/5/2024 2:17:52PM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/28/24 05:30
Date Logged In: 02/28/24 08:59
Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402269
Logged In By: Angelina Pineda

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
i.e. 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
minutes of sampling

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 (pca 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402270

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402270
Date Received: 2/28/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 35'	E402270-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:20:16AM
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BH01 35'

E402270-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.3 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.3 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>		82.8 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	588	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:20:16AM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:20

- 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.



Page 11 of 12

Envirotech Analytical Laboratory

Printed: 2/29/2024 1:15:11PM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/28/24 05:30
 Date Logged In: 02/28/24 09:00
 Due Date: 03/05/24 17:00 (4 day TAT)

Work Order ID: E402270
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402261

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402261
Date Received: 2/28/2024 8:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:15
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E402261-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 4'	E402261-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:15:25AM

BH02 0.5'

E402261-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	635	125	5	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	1180	250	5	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1400	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:15:25AM

BH02 4'

E402261-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	852	50.0	2	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	1060	100	2	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	347	100	5	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:15:25AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:15

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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program					
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402261		01053-0007					5 day TAT						
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															
Phone: 832-541-7719					Email: jim.raley@dv.com															
Email: Devon-team@etechnv.com					WO: 21181897															
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650												State			
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	BDOC NM	GDGC TX	NM	CO	UT	AZ	TX		
12:30	02.26.24	S	1	BH02	1	0.5'						X		X						
12:40	02.26.24	S	1	BH02	2	4'						X								
02/27/24																			Remarks	
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.											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.									
Sampled by: EK																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
[Signature]		02/27/24	6:00	[Signature]		2-27-24	1005	Received on ice: ☒ Y / ☐ N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3												
[Signature]		2-27-24	1628	[Signature]		2-27-24	1730													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
[Signature]		2-27-24	2400	[Signature]		2/28/24	0800	4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Envirotech Analytical Laboratory

Printed: 2/28/2024 11:02:48AM

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:	02/28/24 08:00	Work Order ID:	E402261
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:58	Logged In By:	Alexa Michaels
Email:	devon-team@etechev.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402262

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402262
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:16
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 10'	E402262-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 15'	E402262-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 20'	E402262-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH02 25'	E402262-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:16:33AM

BH02 10'

E402262-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	104	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	125	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	286	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:16:33AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 15'

E402262-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	112 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1280	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:16:33AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 20'

E402262-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	114 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1130	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:16:33AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 25'

E402262-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	113 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	777	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:16:33AM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:16

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:07:11AM

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:	02/28/24 08:59	Work Order ID:	E402262
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402265

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402265
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 30'	E402265-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 3:04:47PM

BH02 30'

E402265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	85.5 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	537	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:04:47PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:04

- M2Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite
- DNRDid 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.

Page 11 of 12

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:18:15AM

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:	02/28/24 08:30	Work Order ID:	E402265
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402266

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402266
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 35'	E402266-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 3:01:06PM

BH02 35'

E402266-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	476	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 3:01:06PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 15:01

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:23:39AM

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:	02/28/24 08:59	Work Order ID:	E402266
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402267

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402267
Date Received: 2/28/2024 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 9:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E402267-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 4'	E402267-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:17:30AM

BH03 0.5'

E402267-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	79.7 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	5770	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:17:30AM

BH03 4'

E402267-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	80.3 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1870	200	10	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:17:30AM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:17

- M2Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite
- DNRDid 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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402267		010580007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/CRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
14:40	02.26.24	S	1	BH03	1	0.5'							X						
14:50	02.26.24	S	1	BH03	2	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.											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 5 °C on subsequent days.								
Sampled by: EK																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
		02/27/24	8:00			2-27-24	1005	Received on ice: ☒ Y ☐ N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
		2-27-24	1628			2-27-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
		2-27-24	2400			2/28/24	900	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 2/28/2024 9:33:16AM

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:	02/28/24 09:00	Work Order ID:	E402267
Phone:	(539) 573-4018	Date Logged In:	02/28/24 09:00	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402268

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402268
Date Received: 2/28/2024 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 9:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Yates Federal #1	Reported: 03/05/24 09:18
	Project Number:	01058-0007	
	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 10'	E402268-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 15'	E402268-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 20'	E402268-03A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH03 25'	E402268-04A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:18:38AM
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BH03 10'

E402268-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
Surrogate: n-Nonane	82.0 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2170	200	10	02/29/24	02/29/24	

Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:18:38AM

BH03 15'

E402268-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/01/24	
<i>Surrogate: n-Nonane</i>						
	75.9 %	50-200		03/01/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2760	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:18:38AM
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BH03 20'

E402268-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	77.9 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2580	40.0	2	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:18:38AM
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BH03 25'

E402268-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	76.3 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2409072	
Chloride	2480	200	10	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:18:38AM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:18

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.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402268		00580007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719					Email: jim.raley@dv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Collected by: Edyte Konan					Incident ID: nAB1428734057, nRM2011138650														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
15:00	02.26.24	S	1	BH03	1	10'							X						
15:10	02.26.24	S	1	BH03	2	15'							X						
15:20	02.26.24	S	1	BH03	3	20'							X						
15:30	02.26.24	S	1	BH03	4	25'							X						
02/27/24																			
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.										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) <i>[Signature]</i> Date: 02/27/24 Time: 6:00										Received by: (Signature) <i>[Signature]</i> Date: 2-27-24 Time: 1005									
Relinquished by: (Signature) <i>[Signature]</i> Date: 2-27-24 Time: 1628										Received by: (Signature) <i>[Signature]</i> Date: 2-27-24 Time: 1730									
Relinquished by: (Signature) <i>[Signature]</i> Date: 2-27-24 Time: 2400										Received by: (Signature) <i>[Signature]</i> Date: 2/28/24 Time: 900									
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: 2/28/2024 9:42:34AM

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:	02/28/24 09:00	Work Order ID:	E402268
Phone:	(539) 573-4018	Date Logged In:	02/28/24 09:00	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402257

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402257
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 30'	E402257-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 2:13:01PM

BH03 30'

E402257-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	110 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	106 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2409046
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: Bromofluorobenzene	110 %	70-130		02/28/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130		02/28/24	03/01/24	
Surrogate: Toluene-d8	106 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409065
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane	100 %	50-200		02/29/24	03/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2409051
Chloride	1010	200	10	02/28/24	02/28/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Volatile Organic Compounds by EPA 8260B

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

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	0.556		0.500		111	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			

LCS (2409046-BS1)

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.65	0.0250	2.50		106	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.81	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike (2409046-MS1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/02/24

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.61	0.0250	2.50	ND	104	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.02	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2409046-MSD1)

Source: E402252-42

Prepared: 02/28/24 Analyzed: 03/04/24

Benzene	2.58	0.0250	2.50	ND	103	48-131	2.98	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	7.07	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	3.03	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	1.56	27	
p,m-Xylene	5.23	0.0500	5.00	ND	104	43-135	2.31	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	2.06	27	
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2409046-BLK1)

Prepared: 02/28/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.556		0.500		111	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			

LCS (2409046-BS2)

Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.569		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2409046-MS2)

Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2409046-MSD2)

Source: E402252-42 Prepared: 02/28/24 Analyzed: 03/05/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	4.16	20	
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 2:13:01PM

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 (2409051-BLK1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	ND	20.0							
LCS (2409051-BS1)					Prepared: 02/28/24 Analyzed: 02/28/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2409051-MS1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	298	20.0	250	48.0	99.9	80-120			
Matrix Spike Dup (2409051-MSD1)					Source: E402248-02		Prepared: 02/28/24 Analyzed: 02/28/24		
Chloride	300	20.0	250	48.0	101	80-120	0.716	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 14:13

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/28/2024 8:41:58AM

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:	02/28/24 08:30	Work Order ID:	E402257
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:39	Logged In By:	Raina Schwanz
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402260

Job Number: 01058-0007

Received: 2/28/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/6/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402260
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 35'	E402260-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Project Name: Yates Federal #1

Workorder:E402260

Date Received: 02/28/2024

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
BH03 35'	E402260-01	Anions by EPA 300.0/9056A

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/6/2024 4:20:35PM
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BH03 35'

E402260-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409065	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/29/24	03/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/29/24	03/01/24	
Surrogate: n-Nonane	110 %	50-200		02/29/24	03/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2410056	
Chloride	588	200	10	03/06/24	03/06/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1)

Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)

Source: E402261-02

Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409065-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.8		50.0		108	50-200			

LCS (2409065-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2409065-MS1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8770	50.0	250	8390	153	38-132			M4
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2409065-MSD1)				Source: E402254-01		Prepared: 02/29/24 Analyzed: 02/29/24			
Diesel Range Organics (C10-C28)	8390	50.0	250	8390	2.83	38-132	4.36	20	M4
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:20:35PM

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 (2410056-BLK1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	ND	20.0							
LCS (2410056-BS1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2410056-MS1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16700	400	250	18700	NR	80-120			M4
Matrix Spike Dup (2410056-MSD1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16500	400	250	18700	NR	80-120	1.08	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:20

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
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.



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Envirotech Analytical Laboratory

Printed: 2/28/2024 9:03:09AM

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:	02/28/24 08:30	Work Order ID:	E402260
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:57	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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.

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only					TAT			EPA Program							
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E40 2260		01058-0007						5 day TAT							
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDOC TX	State							
Phone: 832-541-7719					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX			
Email: Devon-team@etechnv.com					WO: 21181897													Remarks				
Incident ID: nAB1428734057, nRM2011138650																						
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 3000	BGDOC NM	GDOC TX	Remarks								
15:50	02.26.24	S	1	BH03	1	35'					X	X		rerun requested by E. Herrera 2/27/24								
02/27/24																						
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	Lab Use Only														
Michelle Gayle		02/27/24	6:00	Michelle Gayle		2-27-24	1005	Received on ice: (Y) / N														
Michelle Gayle		2-27-24	16:28	Andrew H. H.		2-27-24	1730	T1 T2 T3														
Andrew H. H.		2-27-24	2400	Raine Lehman		2/27/24	8:30	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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Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402263

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402263
Date Received: 2/28/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E402263-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH04 4'	E402263-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 2:20:43PM

BH04 0.5'

E402263-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	179	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	260	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	4090	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 2:20:43PM

BH04 4'

E402263-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	2340	200	10	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

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 (2409053-BLK1)Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1)Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1)Source: E402261-02Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:20:43PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:20

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: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT			EPA Program							
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E402263	010580007				5 day TAT							
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		Depth (ft.)	TPH GRO/PRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOD TX	State				
Phone: 832-541-7719					Email: jim.raley@divn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks					
17:20	02.26.24	S	1	BH04	1	0.5'							X						
17:30	02.26.24	S	1	BH04	2	4'							X						
02/27/24																			
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																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		02/27/24	6:00	Michelle Gault		2-27-24	1005	Received on ice: ☒ Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gault		2-27-24	1628	[Signature]		2-27-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		2-27-24	2400	Karin Schumy		2/28/24	8:30	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.																			

Page 1468 of 1755

Envirotech Analytical Laboratory

Printed: 2/28/2024 9:12:13AM

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:	02/28/24 08:30	Work Order ID:	E402263
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402264

Job Number: 01058-0007

Received: 2/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/4/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402264
Date Received: 2/28/2024 8:59:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2024 8:59:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 10'	E402264-01A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.
BH04 15'	E402264-02A	Soil	02/26/24	02/28/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/4/2024 2:19:09PM

BH04 10'

E402264-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1470	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/4/2024 2:19:09PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH04 15'

E402264-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Benzene	ND	0.0250	1	02/28/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/28/24	03/01/24	
Toluene	ND	0.0250	1	02/28/24	03/01/24	
o-Xylene	ND	0.0250	1	02/28/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/28/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/28/24	03/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2409053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/28/24	03/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		02/28/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2409080	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	109 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2409067	
Chloride	1750	20.0	1	02/29/24	02/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

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	7.46		8.00		93.3	70-130			

LCS (2409053-BS1) Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.74	0.0250	5.00		94.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130			
Total Xylenes	14.6	0.0250	15.0		97.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

Matrix Spike (2409053-MS1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	61-133			
Toluene	4.90	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2409053-MSD1) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Benzene	4.76	0.0250	5.00	ND	95.1	54-133	0.856	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133	0.682	20	
Toluene	4.86	0.0250	5.00	ND	97.1	61-130	0.803	20	
o-Xylene	4.83	0.0250	5.00	ND	96.6	63-131	0.410	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	0.675	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.587	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409053-BLK1) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2409053-BS2) Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2409053-MS2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2409053-MSD2) Source: E402261-02 Prepared: 02/28/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.985	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409080-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2409080-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike (2409080-MS1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	56.8		50.0		114	50-200			

Matrix Spike Dup (2409080-MSD1)					Source: E402292-22		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.810	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/4/2024 2:19:09PM

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 (2409067-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409067-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2409067-MS1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1790	20.0	250	1590	79.0	80-120			M2
Matrix Spike Dup (2409067-MSD1)					Source: E402259-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1870	20.0	250	1590	111	80-120	4.44	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/04/24 14:19

- M2Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite
- DNRDid 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: 8/14/2026 5:04:26 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only					TAT			EPA Program				
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402264		010580007						5 day TAT				
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 832-541-7719					Email: jim.raley@devn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																			
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
17:40	02.26.24	S	1	BH04	1	10'							X						
17:50	02.26.24	S	1	BH04	2	15'							X						
02/27/2024																			
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	Lab Use Only											
[Signature]		02/27/24	6:00	[Signature]		2-27-24	1005	Received on ice: ☒ Y ☐ N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
[Signature]		2-27-24	1628	[Signature]		2-27-24	1730												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		2-27-24	2400	[Signature]		2/28/24	8:59	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 2/28/2024 9:16:56AM

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:	02/28/24 08:59	Work Order ID:	E402264
Phone:	(539) 573-4018	Date Logged In:	02/28/24 08:59	Logged In By:	Alexa Michaels
Email:	devon-team@etechenv.com	Due Date:	03/05/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402273

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402273
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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whinchman@envirotech-inc.com

Raina Schwanz
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Field Offices:

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 03/05/24 09:22
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 20'	E402273-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH04 25'	E402273-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:22:29AM

BH04 20'

E402273-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	95.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	101 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	95.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	83.9 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	1470	100	5	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:22:29AM

BH04 25'

E402273-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		81.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		81.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane		83.1 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	1100	40.0	2	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:22:29AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:22

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/29/2024 8:40:52AM

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
 Phone: (539) 573-4018
 Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:23
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402273
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field,
 i.e., 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402275

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402275
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 30'	E402275-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:23:23AM

BH04 30'

E402275-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.2 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	93.5 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.2 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.3 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	853	100	5	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

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 (2409068-BLK1)Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)Source: E402269-01Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

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 (2409068-BLK1)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)					Prepared: 02/29/24 Analyzed: 03/01/24				
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)					Source: E402269-01	Prepared: 02/29/24 Analyzed: 03/02/24			
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:23:23AM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:23

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/29/2024 8:47:57AM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
Date Logged In: 02/28/24 15:26
Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402275
Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402276

Job Number: 01058-0007

Received: 2/29/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/6/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402276
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 35'	E402276-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Case Narrative:

Project Name: Yates Federal #1

Workorder:E402276

Date Received: 02-29-2024

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
BH04 35'	E402276-01	Anions by EPA 300.0/9056A

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 4:17:04PM

BH04 35'

E402276-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane		87.0 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2410056
Chloride	665	20.0	1	03/06/24	03/06/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:17:04PM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1) Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:17:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2)

Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:17:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:17:04PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	20	M4



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 4:17:04PM

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 (2410056-BLK1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	ND	20.0							
LCS (2410056-BS1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2410056-MS1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16700	400	250	18700	NR	80-120			M4
Matrix Spike Dup (2410056-MSD1)					Source: E403034-01		Prepared: 03/05/24 Analyzed: 03/05/24		
Chloride	16500	400	250	18700	NR	80-120	1.08	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 16:17

- 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.



enviroteck

Envirotech Analytical Laboratory

Printed: 2/29/2024 9:16:04AM

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
Phone: (539) 573-4018
Email: devon-team@etechev.com

Date Received: 02/29/24 05:30
Date Logged In: 02/28/24 15:28
Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402276
Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.



Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402277

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402277
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:25
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E402277-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 4'	E402277-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:25:36AM

BH05 0.5'

E402277-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	86.2 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2409061	
Chloride	1740	20.0	1	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/5/2024 9:25:36AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH05 4'
E402277-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2409060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2409081	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2409061	
Chloride	1370	100	5	02/29/24	02/29/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409060-BLK1)Prepared: 02/29/24 Analyzed: 02/29/24

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	7.14		8.00		89.2	70-130			

LCS (2409060-BS1)Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	3.92	0.0250	5.00		78.4	70-130			
Ethylbenzene	3.97	0.0250	5.00		79.4	70-130			
Toluene	3.94	0.0250	5.00		78.9	70-130			
o-Xylene	3.91	0.0250	5.00		78.2	70-130			
p,m-Xylene	8.03	0.0500	10.0		80.3	70-130			
Total Xylenes	11.9	0.0250	15.0		79.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2409060-MS1)Source: E402281-02Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.19	0.0250	5.00	ND	83.8	54-133			
Ethylbenzene	4.26	0.0250	5.00	ND	85.2	61-133			
Toluene	4.23	0.0250	5.00	ND	84.6	61-130			
o-Xylene	4.20	0.0250	5.00	ND	83.9	63-131			
p,m-Xylene	8.61	0.0500	10.0	ND	86.1	63-131			
Total Xylenes	12.8	0.0250	15.0	ND	85.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.4	70-130			

Matrix Spike Dup (2409060-MSD1)Source: E402281-02Prepared: 02/29/24 Analyzed: 02/29/24

Benzene	4.77	0.0250	5.00	ND	95.3	54-133	12.9	20	
Ethylbenzene	4.85	0.0250	5.00	ND	96.9	61-133	12.9	20	
Toluene	4.82	0.0250	5.00	ND	96.3	61-130	12.9	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131	13.5	20	
p,m-Xylene	9.78	0.0500	10.0	ND	97.8	63-131	12.7	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	13.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409060-BLK1)

Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.3	70-130			

LCS (2409060-BS2)

Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		96.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike (2409060-MS2)

Source: E402281-02

Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2409060-MSD2)

Source: E402281-02

Prepared: 02/29/24 Analyzed: 02/29/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	10.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		97.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:25:36AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409061-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409061-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2409061-MS1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	1680	100	250	1370	120	80-120			
Matrix Spike Dup (2409061-MSD1)					Source: E402277-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	2070	100	250	1370	280	80-120	21.2	20	M4, R3

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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:25

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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.



Page 12 of 13

Envirotech Analytical Laboratory

Printed: 2/29/2024 9:29:47AM

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 - Carlisbad
 Phone: (539) 573-4018
 Email: devon-team@ctechenv.com

Date Received: 02/29/24 05:30
 Date Logged In: 02/28/24 15:29
 Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402277
 Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field,
 i.e. 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15
 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402278

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/6/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Yates Federal #1
Workorder: E402278
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 13:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 10'	E402278-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 15'	E402278-02A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 20'	E402278-03A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.
BH05 25'	E402278-04A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 10'

E402278-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	104 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.6 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	104 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.6 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane	104 %	50-200		03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	2120	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 15'

E402278-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		86.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		86.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		104 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	1410	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 20'

E402278-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		103 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		103 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	597	200	10	02/29/24	02/29/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/6/2024 1:01:38PM

BH05 25'

E402278-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene		102 %	70-130	02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	02/29/24	03/01/24	
Surrogate: Toluene-d8		89.6 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410036
Diesel Range Organics (C10-C28)	ND	25.0	1	03/05/24	03/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/05/24	03/05/24	
Surrogate: n-Nonane		105 %	50-200	03/05/24	03/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	671	100	5	02/29/24	02/29/24	



WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 3/6/2024 1:01:38PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410036-BLK1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			

LCS (2410036-BS1)					Prepared: 03/05/24 Analyzed: 03/05/24				
Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2410036-MS1)					Source: E403011-02		Prepared: 03/05/24 Analyzed: 03/05/24		
Diesel Range Organics (C10-C28)	312	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			

Matrix Spike Dup (2410036-MSD1)					Source: E403011-02		Prepared: 03/05/24 Analyzed: 03/05/24		
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132	2.00	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/6/2024 1:01:38PM

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 (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/06/24 13:01

- 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.



Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program											
Project: Yates Federal #1					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA										
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E402278		01058-0007					5 day TAT												
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									
Phone: 832-541-7719					Email: jim.raley@devn.com												NM		CO		UT		AZ		TX	
Email: Devon-team@etechnv.com					WO: 21181897																					
Incident ID: nAB1428734057, nRM2011138650																										
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	BGDOC NM	GDGC TX	Remarks											
11:50	02.27.24	S	1	BH05	1	10'							X													
12:00	02.27.24	S	1	BH05	2	15'							X													
12:10	02.26.24	S	1	BH05	3	20'							X													
12:20	02.26.24	S	1	BH05	4	25'							X													
02/28/24																										
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	Lab Use Only																		
[Signature]		02/28/24	10:30	[Signature]		2-28-24	1030	Received on ice: (Y) / N																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3																		
[Signature]		2-28-24	1710	[Signature]		2-28	1719																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C																		
[Signature]		2-29	2405	[Signature]		2-29-24	0530	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: 2/29/2024 9:40:30AM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
Date Logged In: 02/28/24 15:31
Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402278
Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402279

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402279
Date Received: 2/29/2024 5:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 5:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 30'	E402279-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/5/2024 9:26:51AM
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BH05 30'

E402279-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	02/29/24	03/01/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	02/29/24	03/01/24	
<i>Surrogate: Toluene-d8</i>		89.4 %	70-130	02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	576	40.0	2	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:26:51AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:26

- 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.

Envirotech Analytical Laboratory

Printed: 2/29/2024 8:54:20AM

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
Phone: (539) 573-4018
Email: devon-team@etechnv.com

Date Received: 02/29/24 05:30
Date Logged In: 02/28/24 15:33
Due Date: 03/06/24 17:00 (4 day TAT)

Work Order ID: E402279
Logged In By: Alexa Michaels

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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E402280

Job Number: 01058-0007

Received: 2/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E402280
Date Received: 2/29/2024 7:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/29/2024 7:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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:	Yates Federal #1	Reported: 03/05/24 09:27
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 35'	E402280-01A	Soil	02/27/24	02/29/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/5/2024 9:27:49AM

BH05 35'

E402280-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Benzene	ND	0.0250	1	02/29/24	03/01/24	
Ethylbenzene	ND	0.0250	1	02/29/24	03/01/24	
Toluene	ND	0.0250	1	02/29/24	03/01/24	
o-Xylene	ND	0.0250	1	02/29/24	03/01/24	
p,m-Xylene	ND	0.0500	1	02/29/24	03/01/24	
Total Xylenes	ND	0.0250	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	102 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2409068
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/29/24	03/01/24	
Surrogate: Bromofluorobenzene	102 %	70-130		02/29/24	03/01/24	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		02/29/24	03/01/24	
Surrogate: Toluene-d8	89.7 %	70-130		02/29/24	03/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2409081
Diesel Range Organics (C10-C28)	ND	25.0	1	03/01/24	03/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/01/24	03/02/24	
Surrogate: n-Nonane	84.5 %	50-200		03/01/24	03/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2409072
Chloride	392	20.0	1	02/29/24	03/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

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 (2409068-BLK1)

Prepared: 02/29/24 Analyzed: 03/01/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS1)

Prepared: 02/29/24 Analyzed: 03/01/24

Benzene	2.99	0.0250	2.50		120	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.4	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.37	0.0250	2.50		94.6	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.4	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.449		0.500		89.7	70-130			

Matrix Spike (2409068-MS1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.03	0.0250	2.50	ND	121	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.96	0.0250	7.50	ND	92.8	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.527		0.500		105	70-130			
Surrogate: Toluene-d8	0.445		0.500		88.9	70-130			

Matrix Spike Dup (2409068-MSD1)

Source: E402269-01

Prepared: 02/29/24 Analyzed: 03/02/24

Benzene	3.04	0.0250	2.50	ND	122	48-131	0.346	23	
Ethylbenzene	2.40	0.0250	2.50	ND	96.1	45-135	2.02	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	1.55	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	2.86	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.0	43-135	2.21	27	
Total Xylenes	7.13	0.0250	7.50	ND	95.1	43-135	2.43	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

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 (2409068-BLK1) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.451		0.500		90.2	70-130			

LCS (2409068-BS2) Prepared: 02/29/24 Analyzed: 03/01/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.456		0.500		91.1	70-130			

Matrix Spike (2409068-MS2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.447		0.500		89.4	70-130			

Matrix Spike Dup (2409068-MSD2) Source: E402269-01 Prepared: 02/29/24 Analyzed: 03/02/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.115	20	
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.444		0.500		88.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409081-BLK1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			

LCS (2409081-BS1)					Prepared: 03/01/24 Analyzed: 03/01/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		90.9	50-200			

Matrix Spike (2409081-MS1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.6	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike Dup (2409081-MSD1)					Source: E402267-02		Prepared: 03/01/24 Analyzed: 03/01/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	38-132	0.314	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/5/2024 9:27:49AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2409072-BLK1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	ND	20.0							
LCS (2409072-BS1)					Prepared: 02/29/24 Analyzed: 02/29/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2409072-MS1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3180	100	250	2760	168	80-120			M4
Matrix Spike Dup (2409072-MSD1)					Source: E402268-02		Prepared: 02/29/24 Analyzed: 02/29/24		
Chloride	3090	100	250	2760	130	80-120	3.06	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/05/24 09:27

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 2/29/2024 9:46:26AM

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:	02/29/24 07:00	Work Order ID:	E402280
Phone:	(539) 573-4018	Date Logged In:	02/28/24 15:34	Logged in By:	Alexa Michaels
Email:	devon-team@etechnv.com	Due Date:	03/06/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierSample 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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E404224

Job Number: 01058-0007

Received: 4/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 4/26/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E404224
Date Received: 4/22/2024 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/22/2024 8:30:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 04/26/24 12:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E404224-01A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH01 1'	E404224-02A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH02 0.5'	E404224-03A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH02 1'	E404224-04A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH03 0.5'	E404224-05A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH03 1'	E404224-06A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH04 0.5'	E404224-07A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH04 1'	E404224-08A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH05 0.5'	E404224-09A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.
PH05 1'	E404224-10A	Soil	04/18/24	04/22/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
4/26/2024 12:08:34PM

PH01 0.5'

E404224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2417024
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417031
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2417030
Chloride	121	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH01 1'
E404224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.4 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	83.6 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	68.1	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH02 0.5'

E404224-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.1 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
Surrogate: n-Nonane	84.1 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	131	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH02 1'
E404224-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
Surrogate: n-Nonane	83.8 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	26.6	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH03 0.5'

E404224-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.8 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	84.1 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	114	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH03 1'

E404224-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	80.4 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	85.4 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	156	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH04 0.5'

E404224-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	0.0566	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	77.5 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	35.4	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	65.6	50.0	1	04/23/24	04/24/24	
<i>Surrogate: n-Nonane</i>						
	52.0 %	50-200		04/23/24	04/24/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	203	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 4/26/2024 12:08:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH04 1'

E404224-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	0.0899	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.9 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	47.9	25.0	1	04/23/24	04/24/24	
Oil Range Organics (C28-C36)	77.8	50.0	1	04/23/24	04/24/24	
<i>Surrogate: n-Nonane</i>						
	65.5 %	50-200		04/23/24	04/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	237	40.0	2	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH05 0.5'

E404224-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	78.2 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	53.9	20.0	1	04/23/24	04/23/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Yates Federal #1 Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 4/26/2024 12:08:34PM
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PH05 1'

E404224-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Benzene	ND	0.0250	1	04/22/24	04/23/24	
Ethylbenzene	ND	0.0250	1	04/22/24	04/23/24	
Toluene	ND	0.0250	1	04/22/24	04/23/24	
o-Xylene	ND	0.0250	1	04/22/24	04/23/24	
p,m-Xylene	ND	0.0500	1	04/22/24	04/23/24	
Total Xylenes	ND	0.0250	1	04/22/24	04/23/24	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2417024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/24	04/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	78.5 %	70-130		04/22/24	04/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2417031	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/24	04/23/24	
Surrogate: n-Nonane	81.8 %	50-200		04/23/24	04/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2417030	
Chloride	30.7	20.0	1	04/23/24	04/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417024-BLK1) Prepared: 04/22/24 Analyzed: 04/23/24

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	7.46		8.00		93.2	70-130			

LCS (2417024-BS1) Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	4.57	0.0250	5.00		91.3	70-130			
Ethylbenzene	4.44	0.0250	5.00		88.8	70-130			
Toluene	4.56	0.0250	5.00		91.1	70-130			
o-Xylene	4.49	0.0250	5.00		89.8	70-130			
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130			
Total Xylenes	13.6	0.0250	15.0		90.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike (2417024-MS1) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	5.58	0.0250	5.00	ND	112	54-133			
Ethylbenzene	5.40	0.0250	5.00	ND	108	61-133			
Toluene	5.61	0.0250	5.00	0.0899	110	61-130			
o-Xylene	5.47	0.0250	5.00	ND	109	63-131			
p,m-Xylene	11.0	0.0500	10.0	ND	110	63-131			
Total Xylenes	16.5	0.0250	15.0	ND	110	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.7	70-130			

Matrix Spike Dup (2417024-MSD1) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Benzene	5.49	0.0250	5.00	ND	110	54-133	1.69	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	1.57	20	
Toluene	5.52	0.0250	5.00	0.0899	109	61-130	1.73	20	
o-Xylene	5.38	0.0250	5.00	ND	108	63-131	1.67	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	1.39	20	
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131	1.48	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417024-BLK1) Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			

LCS (2417024-BS2) Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2417024-MS2) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.8	70-130			

Matrix Spike Dup (2417024-MSD2) Source: E404224-08 Prepared: 04/22/24 Analyzed: 04/23/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.3	70-130	5.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417031-BLK1) Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.2		50.0		80.5	50-200			

LCS (2417031-BS1) Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	236	25.0	250		94.3	38-132			
Surrogate: n-Nonane	42.5		50.0		85.0	50-200			

Matrix Spike (2417031-MS1) Source: E404224-04 Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

Matrix Spike Dup (2417031-MSD1) Source: E404224-04 Prepared: 04/23/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	38-132	5.81	20	
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	4/26/2024 12:08:34PM

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 (2417030-BLK1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	ND	20.0							
LCS (2417030-BS1)					Prepared: 04/23/24 Analyzed: 04/23/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2417030-MS1)					Source: E404225-23		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	385	20.0	250	122	105	80-120			
Matrix Spike Dup (2417030-MSD1)					Source: E404225-23		Prepared: 04/23/24 Analyzed: 04/23/24		
Chloride	394	20.0	250	122	109	80-120	2.42	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	04/26/24 12:08

- 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.



Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Yates Federal #1				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 404224		01058-0007					5 day TAT					
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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com				WO: 21181897														
Incident ID: nAB1428734057, nRM2011138650																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:00	04.18.24	S	1	PH01	1	0.5'						X						
11:10	04.18.24	S	1	PH01	2	1'						X						
11:20	04.18.24	S	1	PH02	3	0.5'						X						
11:30	04.18.24	S	1	PH02	4	1'						X						
11:40	04.18.24	S	1	PH03	5	0.5'						X						
11:50	04.18.24	S	1	PH03	6	1'						X						
12:00	04.18.24	S	1	PH04	7	0.5'						X						
12:10	04.18.24	S	1	PH04	8	1'						X						
12:20	04.18.24	S	1	PH05	9	0.5'						X						
12:30	04.18.24	S	1	PH05	10	1'						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.										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.								
Sampled by: EK																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
[Signature]		04/15/24	7:30	Michelle Gonzales		4-19-24	0700	Received on ice: ☒ Y / ☐ N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
Michelle Gonzales		4-19-24	1700	J.M.		4-19-24	1800											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
J.M.		4-19-24	2400	[Signature]		4/22/24	0830	4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Envirotech Analytical Laboratory

Printed: 4/22/2024 12:37:23PM

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:	04/22/24 08:30	Work Order ID:	E404224
Phone:	(539) 573-4018	Date Logged In:	04/22/24 09:30	Logged In By:	Angelina Pineda
Email:	devon-team@etechnv.com	Due Date:	04/26/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Yates Federal #1

Work Order: E405019

Job Number: 01058-0007

Received: 5/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 5/6/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Yates Federal #1
Workorder: E405019
Date Received: 5/3/2024 5:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/3/2024 5:00:00AM, under the Project Name: Yates Federal #1.

The analytical test results summarized in this report with the Project Name: Yates Federal #1 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 regarding 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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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported: 05/06/24 15:16
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 0.5'	E405019-01A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
PH06 1'	E405019-02A	Soil	05/01/24	05/03/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/6/2024 3:16:21PM

PH06 0.5'

E405019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.0 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2418120	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2418123	
Chloride	ND	20.0	1	05/03/24	05/03/24	



Sample Data

WPX Energy - Carlsbad
5315 Buena Vista Dr
Carlsbad NM, 88220

Project Name: Yates Federal #1
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
5/6/2024 3:16:21PM

PH06 1'

E405019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2418115	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2418120	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		05/03/24	05/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2418123	
Chloride	ND	20.0	1	05/03/24	05/03/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418115-BLK1)Prepared: 05/03/24 Analyzed: 05/03/24

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: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

LCS (2418115-BS1)Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.44	0.0250	5.00		88.8	70-130			
Ethylbenzene	4.92	0.0250	5.00		98.3	70-130			
Toluene	4.76	0.0250	5.00		95.3	70-130			
o-Xylene	4.87	0.0250	5.00		97.4	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.7	70-130			

Matrix Spike (2418115-MS1)Source: E405020-02Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.35	0.0250	5.00	ND	87.0	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.8	63-131			
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.6	70-130			

Matrix Spike Dup (2418115-MSD1)Source: E405020-02Prepared: 05/03/24 Analyzed: 05/03/24

Benzene	4.42	0.0250	5.00	ND	88.3	54-133	1.58	20	
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133	2.30	20	
Toluene	4.81	0.0250	5.00	ND	96.3	61-130	2.16	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	2.25	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	2.31	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	2.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418115-BLK1) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

LCS (2418115-BS2) Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike (2418115-MS2) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2418115-MSD2) Source: E405020-02 Prepared: 05/03/24 Analyzed: 05/03/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418120-BLK1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.7		50.0		113	50-200			

LCS (2418120-BS1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike (2418120-MS1)					Source: E405020-03		Prepared: 05/03/24 Analyzed: 05/03/24		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike Dup (2418120-MSD1)					Source: E405020-03		Prepared: 05/03/24 Analyzed: 05/03/24		
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132	1.26	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Yates Federal #1	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	5/6/2024 3:16:21PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2418123-BLK1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Chloride	ND	20.0							
LCS (2418123-BS1)					Prepared: 05/03/24 Analyzed: 05/03/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2418123-MS1)					Source: E405020-02		Prepared: 05/03/24 Analyzed: 05/03/24		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2418123-MSD1)					Source: E405020-02		Prepared: 05/03/24 Analyzed: 05/03/24		
Chloride	257	20.0	250	ND	103	80-120	0.187	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:	Yates Federal #1	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	05/06/24 15:16

- 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.



Refused to Image: 8/14/2026 5:04:20 PM

Received by OCD: 3/5/2025 10:27:13 AM

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only		TAT				EPA Program			
Project: Yates Federal #1					Attention: Jim Raley		Lab WO# E405019		Job Number 61058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E405019		61058-0007					24H TAT		
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											
Phone: 832-541-7719					Email: jim.raley@dvn.com										State	
mail: Devon-team@etechnv.com					WO: 21181897										NM CO UT AZ TX	
					Incident ID: nAB1428734057, nRM2011138650											
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	BDOC NM	GDOC TX	Remarks		
11:40	05.01.24	S	1	PH04A	1	0.5'						X				
11:50	05.01.24	S	1	PH04A	2	1'						X				
05/02/2024																
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	Lab Use Only								
[Signature]		05/02/24	8:00	Michelle Gonzales		5-2-24	0800	Received on ice: Y N								
Michelle Gonzales		5-2-24	1600	[Signature]		5-2-24	1730	T1 T2 T3								
[Signature]		5-2-24	2400	[Signature]		5-3-24	0500	AVG Temp °C 4								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other							Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Envirotech Analytical Laboratory

Printed: 5/6/2024 2:41:32PM

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:	05/03/24 05:00	Work Order ID:	E405019
Phone:	(539) 573-4018	Date Logged In:	05/02/24 15:18	Logged In By:	Angelina Pineda
Email:	devon-team@etechnv.com	Due Date:	05/06/24 17:00 (1 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
4. Was the COC complete, i.e., signatures, dates/times, requested analytes? Yes
5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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 Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

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 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 InstructionComments/Resolution

Samples : PH04A 0.5 & PH04A 1 changed to PH06 0.5 & PH06 1, per Erick H. per email. Green copy made with corrections

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

Date



envirotech Inc.



envirotech

APPENDIX H

Notifications and Correspondence

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, February 9, 2024 9:10 AM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: WPX Energy Extension Request - nRM2011138650 and nAB1428734057

RE: Incident #**NRM2011138650** and **NAB1428734057**

Jim,

Your request for a 90-day extension to **May 9th, 2024**, is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, February 8, 2024 2:48 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Devon-Team <Devon-Team@etechemv.com>
Subject: [EXTERNAL] WPX Energy Extension Request - nRM2011138650 and nAB1428734057

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension for a report required in 19.15.29.12.B.(1) NMAC at the Yates Federal #001 (Site) associated with Incident Numbers nAB1428734057 and nRM2011138650, currently due on February 13, 2024.

A Remediation Work Plan was submitted to the NMOCD on November 15, 2023, but was denied for not providing sufficient delineation data. As a result, WPX secured a driller to advance delineation borings in order to present additional laboratory analytical data in a subsequent Remediation Work Plan, addressing the denial responses issued by NMOCD. Due to the extent of planning, which includes but is not limited to acquiring land access approval, permitting to drill, and accommodating the drillers schedule, additional time to complete delineation activities is warranted. Drilling is tentatively scheduled to be begin within the next two weeks, contingent on the NMOSE approval of drilling permits.

To provide enough time for the completion of delineation activities, receipt of laboratory analytical results, review and compilation of laboratory analytical results and field summaries associated with Incident Numbers nAB1428734057 and nRM2011138650, and submittal of a formal report, WPX requests a 90-day extension of the current deadline to **May 13, 2024**.

Jim Raley | Environmental Professional - Permian Basin

5315 Buena Vista Dr., Carlsbad, NM 88220

C: (575)689-7597 | jim.raley@devon.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all 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.

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 316482

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316482
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Santa Fe, NM 87505

CONDITIONS

Action 316482

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316482
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

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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 316487

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 316487

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

District I1625 N. French Dr., Hobbs, NM 88240
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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 316484

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 316484

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316484
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	2/22/2024

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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 316488

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316488
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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

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

CONDITIONS

Action 316488

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 316488
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	2/22/2024

District I

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 333336

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2024
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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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CONDITIONS

Action 333336

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333336
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jrale	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.	4/15/2024

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QUESTIONS

Action 333338

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333338
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/18/2024
Time sampling will commence	08:30 AM
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Santa Fe, NM 87505

CONDITIONS

Action 333338

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 333338
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/15/2024

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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 338656

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338656
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/01/2024
Time sampling will commence	08:00 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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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 338656

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338656
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/29/2024

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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 338661

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2011138650
Incident Name	NRM2011138650 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source	
Site Name	YATES FEDERAL #001
Date Release Discovered	04/14/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	18,983
What is the estimated number of samples that will be gathered	2
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/01/2024
Time sampling will commence	08:00 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 Whitehorn rd./Stateline rd. head west on Stateline rd. for approximately 1.3 miles, turn left 0.15 miles, turn right 252 ft to location

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State of New Mexico
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CONDITIONS

Action 338661

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 338661
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	4/29/2024

APPENDIX I

Archived Reports

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



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

OCT 10 2014

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1428734057

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	RKI E&P, LLC	Contact	Zack Laird
Address	210 Park Ave. - Ste. 900, OKC, OK 73102	Telephone No.	405-742-2696
Facility Name	Yates Federal #1	Facility Type	Oil and Gas Well
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-24602

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	34	26S	29E		330 FSL		990FEL	Eddy

Latitude 32.0010310863311 Longitude -103.96717129277

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	16Bbls	Volume Recovered	15Bbls
Source of Release	Parted wellhead nipple	Date and Hour of Occurrence	10/03/14 - Unknown	Date and Hour of Discovery	10/03/14 - 0700hrs
Was Immediate Notice Given?	☐ Yes ☐ No ☒ Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

Piping nipple on wellhead parted allowing oil and produced water to leak; all fluids remained on the well pad. Well shut-in, leak repaired.

Describe Area Affected and Cleanup Action Taken.*

Vacuum truck used to recover free fluid, stained soil back dug and hauled.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Zack Laird

Title: Sr. EHS Manager

E-mail Address: ZLaird@rkixp.com

Date: 10/09/14

Phone: 405-987-2213

Approved by Environmental Specialist:

Approval Date: 10/10/14

Expiration Date: NA

Conditions of Approval:

Attached ☐Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 11/10/14

* Attach Additional Sheets If Necessary

22P-2543

District I
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State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAB1428734057
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dmn.com	Incident # (assigned by OCD): nAB1428734057
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

Location of Release Source

Latitude 32.00103 Longitude -103.96717
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Yates Federal #001	Site Type: Production Facility
Date Release Discovered: 10/03/2014	API# (if applicable): 30-015-24602

Unit Letter	Section	Township	Range	County
H	34	26S	29E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil/Produced Water	Volume Released (bbls): 16	Volume Recovered (bbls): 15
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Piping nipple on wellhead parted allowing oil and produced water to leak; all fluids remained on the well pad. Well shut-in, leak repaired.

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

Incident ID	nAB1428734057
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>6/14/2023</u>
email: <u>Jim.Raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAB1428734057
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAB1428734057
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/14/2023
email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAB1428734057
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/14/2023
email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 11/27/2023

o Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area.

APPROVED**By Ashley Maxwell at 9:41 am, Nov 27, 2023**

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811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.000725 Longitude -103.967483
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Yates Federal #001	Site Type: Production Facility
Date Release Discovered: 04/14/2020	API# (if applicable): 30-015-24602

Unit Letter	Section	Township	Range	County
H	34	26S	29E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 10	Volume Recovered (bbls): 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

At 14:00 hours the tubing valve failed causing the produced water tank to overflow and release 10bbl of produced water into the earthen berm. 2bbls were recovered with a vacuum truck. No fluids left location.

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

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

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

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

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dmn.com	Incident # (assigned by OCD): NRM2011138650
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	

Location of Release Source

Latitude 32.000725 Longitude -103.967483
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Yates Federal #001	Site Type: Production Facility
Date Release Discovered: 04/14/2020	API# (if applicable): 30-015-24602

Unit Letter	Section	Township	Range	County
H	34	26S	29E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 10	Volume Recovered (bbls): 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

At 14:00 hours the tubing valve failed causing the produced water tank to overflow and release 10bbl of produced water into the earthen berm. 2bbls were recovered with a vacuum truck. No fluids left location.

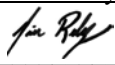
$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21\ (bbl\ equivalent)} * estimated\ porosity\ (\%) + recovered\ fluids\ (bbl)$$

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>6/14/2023</u>
email: <u>Jim.Raley@dm.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/14/2023
email: Jim.Raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2011138650
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 6/14/2023
email: Jim.Raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



REMEDIATION WORK PLAN

Yates Federal #001

Eddy County, New Mexico

Incident Numbers nAB1428734057 and NRM2011138650

Prepared for:

WPX Energy Permian, LLC

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Remediation Work Plan (RWP) detailing a scope of work to address soil impacts from two inadvertent releases of crude oil and/or produced water at the Yates Federal #001 (Site). Based on the incident reviews and field observations at the Site, WPX proposes this RWP, which summarizes initial response efforts and details remediation objectives to investigate the releases and develop a corrective action plan to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit H, Section 34, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.000725°, -103.967483°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (**Figure 1** in **Appendix A**).

nAB1428734057

On October 3, 2014, a wellhead leak resulted in approximately 16 barrels (bbls) of crude oil/produced water to be released onto the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 15 bbls of fluids. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on October 10, 2014, and was subsequently assigned Incident Number nAB1428734057. WPX conducted initial remediation efforts to minimize impacts at the Site, which included the removal and disposal of surficial stained soil. Well files were reviewed to investigate the existence of a reserve pit north of the release area. Based on the review and observations at the Site is it likely the reserve pit exists as documented on the well drilling permit. As a result, no further delineation was conducted in the area to minimize disturbance of the pit area. A Deferral Report (DR) was then submitted by WPX and denied on March 29, 2023, for a depth to water determination based off a well greater than 0.5 miles from the Site and reported groundwater measurements greater than 25 years old.

NRM2011138650

On April 14, 2020, a storage tank overflow resulted in approximately 10 bbls of produced water to be released into the tank battery earthen berm containment. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of fluids. WPX reported the release to the NMOCD on a Form C-141, which was received by the NMOCD on April 17, 2020, and was subsequently assigned Incident Number NRM2011128650. WPX mapped the release extent utilizing a handheld Trimble® Global Positioning System (GPS) unit following the release discovery and is presented as an Area of Concern (AOC) on **Figure 2** in **Appendix A**. Between April 30 and November 5, 2020, WPX initiated excavation activities, contracted the completion of a karst survey at the Site and surrounding area and continued excavation efforts. A DR was then submitted by WPX and was denied on March 18, 2021, due to the karst potential designation for the Site, which had been based off the karst survey results. Based on the data summary from those events and recently denied DR, additional remedial actions appeared warranted. Previous remediation summaries can be referenced in the original reports submitted to the NMOCD.

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.

The closest water well with data is State of Texas Tracking #356414, located approximately 0.4 miles west to southwest of the Site. The well has a reported depth to groundwater of 58 feet below ground surface (bgs) from 2014. Based on this information and findings from the regional water well review, groundwater depth at the Site is estimated to be between 51 and 100 feet bgs. All well records referenced for depth to groundwater determination are included in **Appendix B**.

It should be noted that a margin of error is possible based on imagery only; field verification can further confirm these specified classifications developed from image analysis.

Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a high potential karst area; however, a pedestrian karst survey was conducted and confirmed the absence of surface karst features and the limited likelihood of shallow subsurface karst features. No surface karst features were identified after a thorough desktop review by a karst expert or discovered within the 30.4 acres covered during the pedestrian karst survey. The karst survey is included in **Appendix C**.

Based on the initial desktop review, other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional 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	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

SITE ASSESSMENT

On October 28, 2022, a site assessment was conducted by a third-party environmental consultant to evaluate and verify the release events according to the reported incident details. Two AOCs were identified: an area surrounding the well head (AOC #1) and an area within the tank battery earthen berm containment (AOC #2). The AOCs were mapped with a handheld GPS unit according to visual observations and depicted in **Figure 2** in **Appendix A**. Photographic documentation during the Site visit is included as **Appendix D**.



DELINEATION SOIL SAMPLING ACTIVITIES

On May 12, 2022, and November 9, 2022, a third party environmental consultant advanced a total of two delineation potholes (PH01 and PH02) via mechanical equipment within the tank battery earthen berm containment. Delineation activities were driven by field screening soil samples for volatile organic hydrocarbons using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each pothole: at least one sample representing the highest observed field screening concentrations and one sample representing the pothole terminus. Field screening results and soil descriptions were denoted on a soil sampling log, which is included as **Attachment E**. The location of the delineation soil samples is shown in **Figure 2** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment D**.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for both PH01 and PH02 indicated BTEX and TPH concentrations were below the laboratory detection limit, and chloride concentrations for all soil samples collected from PH02 were below the Site Closure Criteria. Chloride concentrations for PH01 were compliant with Site Closure Criteria once the pothole reached 15 feet bgs. Laboratory analytical results are summarized in Table 1 as **Attachment F**, and the complete laboratory reports with chain-of-custody documentation is included as **Attachment G**.

PROPOSED REMEDIATION WORK PLAN

Based on the Site assessment, the following conclusion regarding the release is presented:

- Delineation soil sampling activities are required to assess the presence or absence of impacts to soil within AOC #1, and if present, to define the vertical and horizontal extent(s) through subsurface investigation and laboratory analyses of Closure Criteria COCs.
- Delineation soil sampling activities are required to assess the lateral extent of AOC #2 through subsurface investigation and laboratory analyses of Closure Criteria COCs.
- Delineation soil samples collected from PH02 will assist in the western lateral definition of both AOCs.

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

- WPX proposes to advance up to 12 delineation points within and around the AOCs via mechanical equipment (**Figure 3** in **Appendix A**). Soil samples will be collected from each delineation location at a maximum frequency of 5-foot intervals and field screened for volatile organic compounds utilizing a PID and chloride using Hach® chloride QuanTab® test strips. Soil observations and field screening results for each delineation soil sample will be recorded on soil sampling logs. Soil sample locations will be mapped using a handheld GPS unit.
- A minimum of two soil samples will be collected from each delineation point location, representing the highest field screened concentration(s) and the greatest depth, and submitted to an accredited lab for analysis of BTEX, TPH and Chloride.
- Delineation locations proposed in areas off pad may require third-party operator oversight and additional safety measures near their respective subsurface pipelines before or during delineation



activities. WPX and/or the third-party operator may implement additional safety precautions above encroachment guidelines at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities. Acknowledgement of the reserve pit may also require the implementation of encroachment guidelines in order to preserve the pit liner throughout remediation activities. Such restrictions include but are not limited to:

- i. Shifting a proposed sampling location(s) within the AOCs to adhere to established buffer zone(s) around one or more utilities or the reserve pit.
 - ii. Inducing a lateral delineation sampling location(s) to be significantly further from the Site.
- Upon receipt and review of delineation soil laboratory results, WPX will determine the appropriate measure of corrective actions that will include:
 - i. Documenting the absence of impacted soil at the Site with a subsequent Closure Report detailing assessment and sampling activities or
 - ii. Preparing a RWP 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 assessment and delineation activities.

WPX believes this RWP will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Anna Byers
Senior 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 Map
Figure 2: Delineation Soil Sample Locations
Figure 3: Proposed Delineation Locations
- Appendix B:** Referenced Well Records
- Appendix C:** Karst Survey

Remediation Work Plan
Incident Numbers NRM2011128650 and nAB1428734057
Yates Federal #001



Appendix D: Photographic Log

Appendix E: Soil Sampling Logs

Appendix F: Tables

Appendix G: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F: NMOCD Notifications

APPENDIX A

Figures

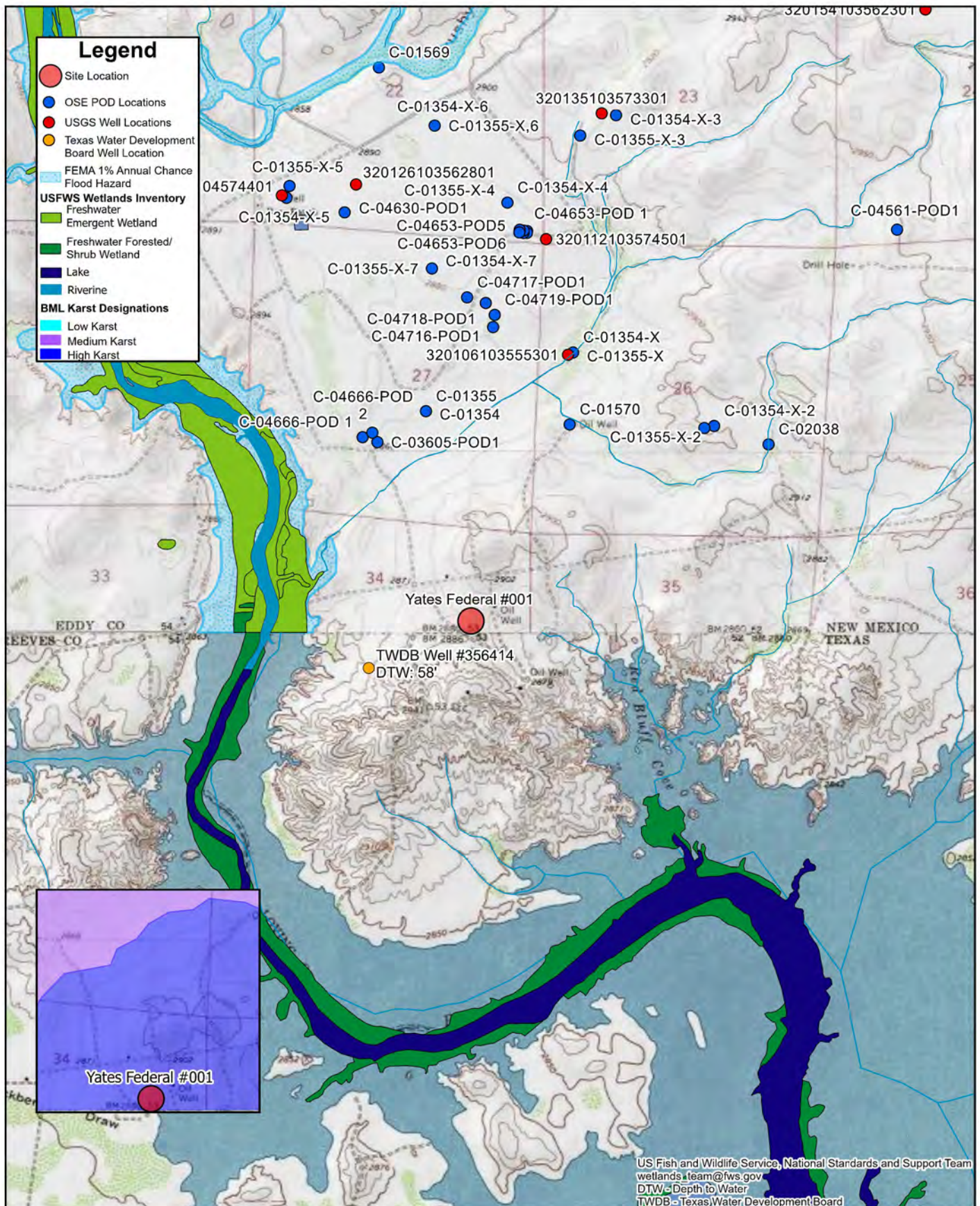


FIGURE 1

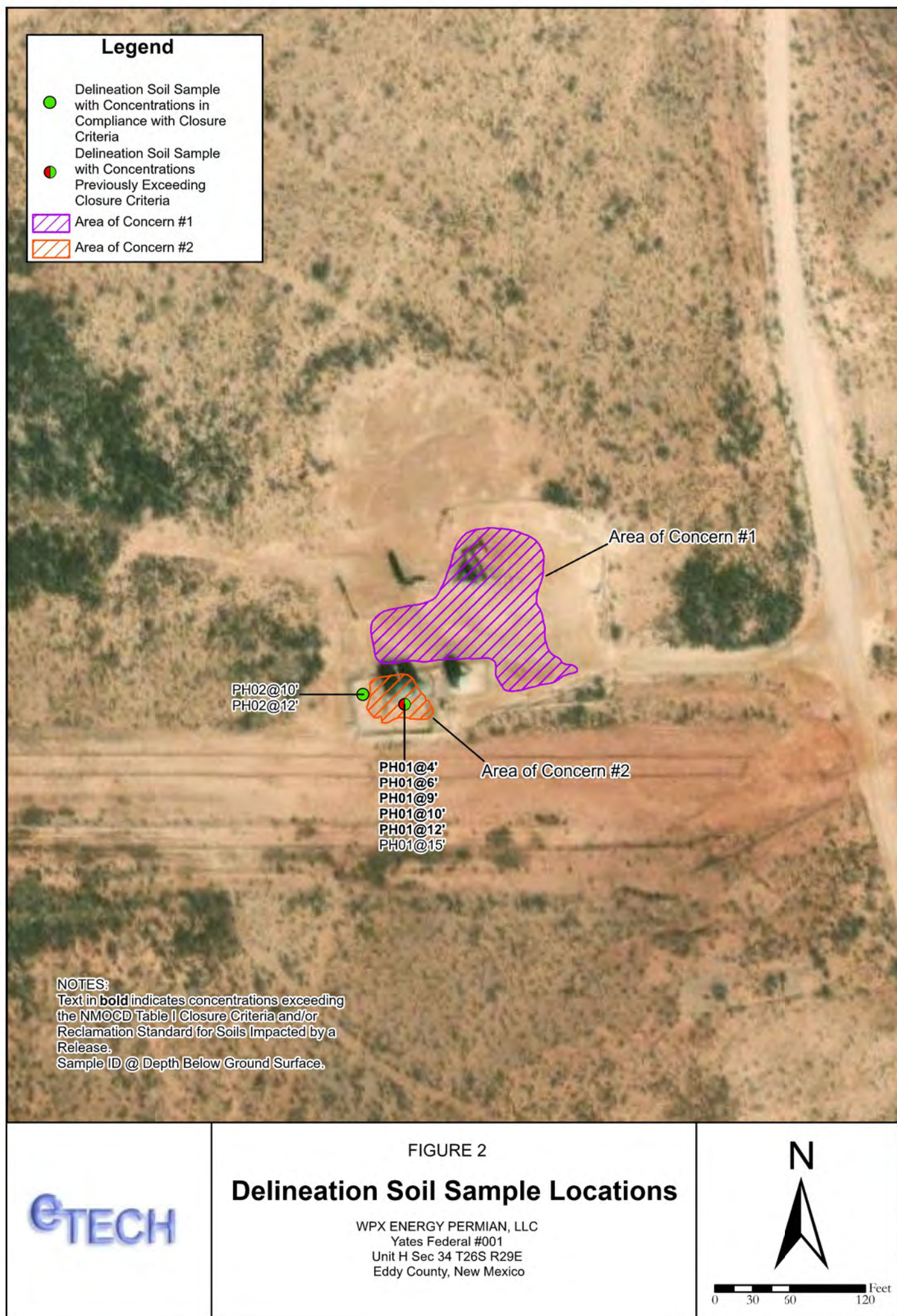
Site Map

WPX ENERGY PERMIAN
Yates Federal #001
Unit H Sec 34 T26S R29E
Eddy County, New Mexico

eTECH



0 1,000 2,000 Feet





APPENDIX B

Referenced Well Records

STATE OF TEXAS WELL REPORT for Tracking #356414

Owner:	BHP BILLITON PETROLEUM	Owner Well #:	JOHNSON#4-2
Address:	115 W 3RD ST, STE 208 PECOS, TX 79772	Grid #:	46-01-1
Well Location:	13.5 mi N of ORLA, 3.3 mi E of HWY 285, & .1 mi S of N MEX line ORLA, TX 79770	Latitude:	31° 59' 54" N
		Longitude:	103° 58' 25" W
Well County:	Loving	Elevation:	2866 ft. above sea level
Type of Work:	New Well	Proposed Use:	Rig Supply

Drilling Start Date: **3/4/2014**Drilling End Date: **3/5/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	303

Drilling Method: **Air Hammer**Borehole Completion: **Filter Packed; CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	20	303	Gravel	1/4"

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	5 CEMENT

Seal Method: **HAND**Distance to Property Line (ft.): **5000+**Sealed By: **Driller**Distance to Septic Field or other
concentrated contamination (ft.): **N/A**Distance to Septic Tank (ft.): **No Data**Method of Verification: **OWNER INFO**Surface Completion: **Surface Sleeve Installed**Water Level: **58 ft. below land surface on 2014-03-05** Measurement Method: **Unknown**Packers: **No Data**Type of Pump: **No Data**Well Tests: **Jetted** **Yield: 30+ GPM**

Water Quality:	Strata Depth (ft.)	Water Type
	70-100 & 268-280	SALTY

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **SKINNER'S DRILLING**
P.O. BOX 544
ALPINE, TX 79831

Driller Name: **WALTER SKINNER**License Number: **2838**Apprentice Name: **JOHN SKINNER**Apprentice Number: **58577**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	TOPSOIL
4	25	LIGHT BROWN CLAY
25	55	RED CLAY
55	115	CRYSTAL FORMATIONS
115	175	BROWN CLAY
175	185	CRYSTAL FORMATIONS
185	270	RED CLAY & SANDSTONE
270	303	CRYSTAL FORMATIONS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8 N STEEL 1.5A 8			
6 N PVC SCH 40 0 60			
6 N PVC SCH 40 SLOT. 60 100 .035			
6 N PVC SCH 40 100 263			
6 N PVC SCH 40 SLOT. 263 283 .035			
6 N PVC SCH 40 283 303			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

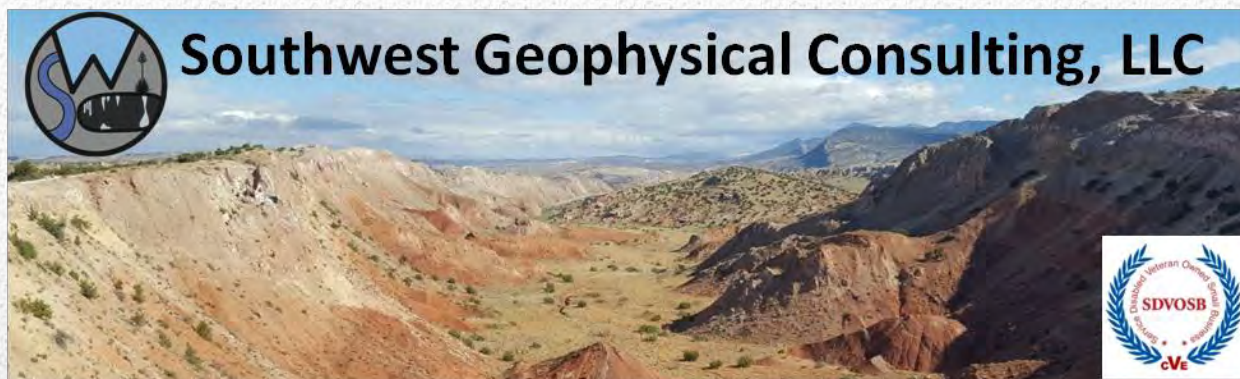
TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

APPENDIX C

Karst Survey



Cave and Karst Resource Inventory Report Yates Federal #001 Eddy County, New Mexico

**Prepared for:
LT Environmental, Inc.
3300 North A Street Building 1, Unit 222
Midland, TX 79705**

- ☐ Positive – HKOZ remediation process required
- ☒ Negative – Oil Conservation Division may approve MKOZ remediation process at their discretion

September 14, 2020

LTE-022-20200901

Published by:

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5117 Fairfax Dr. NW
Albuquerque, NM 87114
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LTE-022-20200901

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1.0 INTRODUCTION

A pedestrian surface karst survey was commissioned by LT Environmental, Inc. (hereinafter referred to as "the client") on September 01, 2020 for the purpose of determining what, if any, karst-related surface features are present near the Yates Federal #001 pad (hereinafter termed "Yates") and to provide guidance on the level of remediation required. This study does not include subsurface features, which would require a geophysical survey. The study area that this report covers is in a **HIGH** karst occurrence zone and located within Bureau of Land Management - Carlsbad Field Office and privately managed lands.

As indicated in section **1.3 Affected Environment**, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during remediation by careful excavation of the spill site and the control of site hydrology. The Owner/Developer must recognize that a risk of sinkhole-induced damage to infrastructure remains even after site remediation. The Owner/Developer must evaluate the risks and attendant costs of performing a geophysical survey prior to remediation, versus no geophysical survey, and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting, LLC can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location, description, photos, and boundaries of any surface karst-related features within a 200-meter buffer surrounding the Yates pad as provided by the client via email on September 01, 2020.

1.2 Summary of Findings

No surface karst features were located within the pedestrian survey area. However, unknown hidden features may still exist beneath the surface. Caution should be exercised during any remediation efforts.

1.3 Affected Environment

The Yates 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.

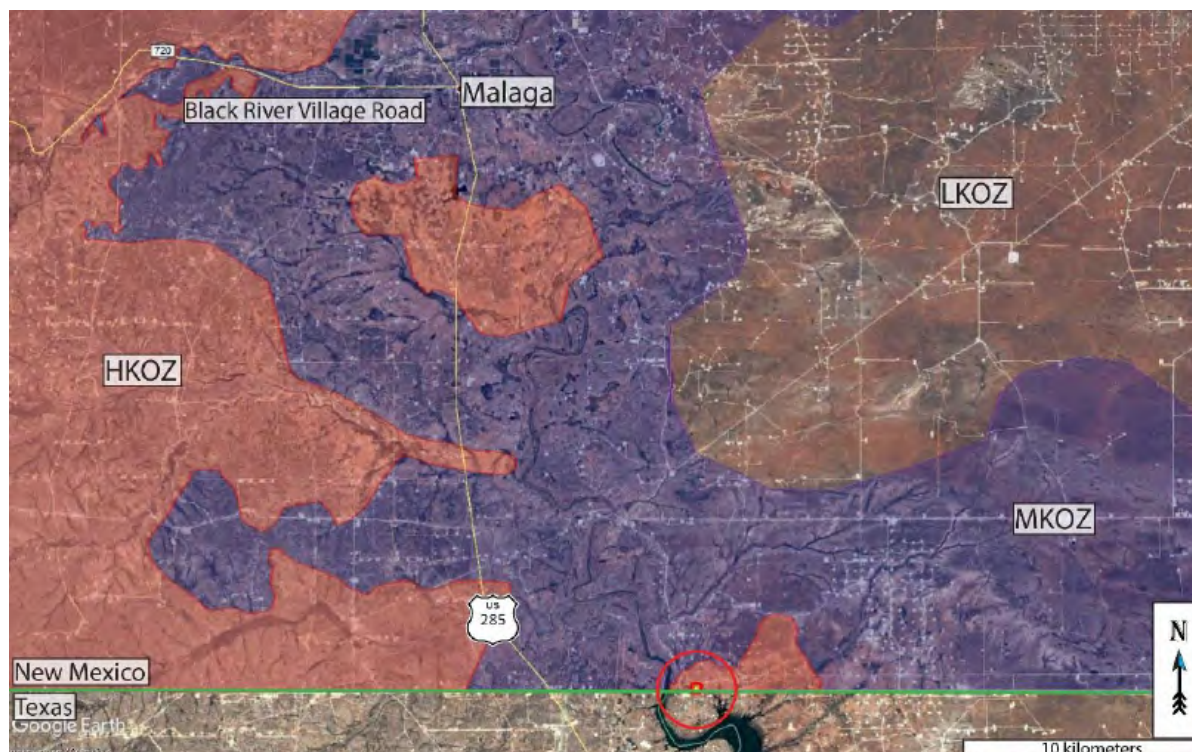


Figure 1: Karst occurrence overview. Red transparent area is a high karst occurrence zone; blue transparent area is a medium karst occurrence zone; no color is a low karst occurrence zone. Study area is the red outlined area in the lower-middle portion of the image. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

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

A high karst occurrence zone is defined as areas in known soluble rock types that contain 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^[2].

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The Yates project site is located in Eddy County, New Mexico, 26.7 kilometers (16.6 miles) south-southeast of Malaga, New Mexico, along the Texas-New Mexico border (**Figure 1** and **Figure 2**). The survey area is located within section 34 of NM T26S R29E. This area is within the Chihuahuan Desert Thornscrub defined by the Southwestern Regional ReGAP Vegetation map^[3] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca with very good visibility in most locations. See section **2.2 Local Geology** for the geology of the area. The entirety of the project site and surrounding survey area is within a HKOZ (**Figure 1**). Seventy-two percent of the survey area is located in BLM-CFO managed lands, while the remaining 28% is within privately managed lands in Texas (**Figure 2**).



Figure 2: Land ownership overview. Yellow transparent area: BLM-CFO managed land. Blue transparent area: New Mexico State Land Office managed land. No color: private land. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.2 Local Geology

The area surveyed for the Yates project is located at an elevation of 880 meters (2,887 feet), ± 3 meters (10 feet), within an area underlain by the Permian Rustler and Dewey Lakes Formations (Pru and Pdl). The area is mantled by thin gypsiferous soils, and Quaternary alluvial sands and gravels (Qal and Qp)^[4] between 0 and 3 meters in depth (**Figure 3**). The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum^[5], and contains both karst-forming strata (the Forty-niner and Tamarisk Members) and two shallow aquifers (the Magenta and Culebra Dolomite Members). The Pru overlies the Permian Salado Formation (Psl, not shown on map), a layer of extremely soluble halite which can easily be dissolved to create caves, sinkholes, and other karst features^[6]. The Pru may be subject to collapse if a void has developed beneath it in the Salado Formation. The survey area is covered by the Geologic Map of New Mexico (2003) at 1:500,000 scale^[4], and the Geologic Atlas of Texas - Hobbs Sheet (1976) at 1:250,000 scale.



Figure 3: Geology overview. Pru: Permian Rustler Formation. Pdl/Pqr: Permian Dewey Lake Formation (formerly known as the Permian Quartermaster Formation). Qp: Quaternary piedmont deposits. Qal: Quaternary alluvium. Red polygon is the study area. Yellow polygon is the YATES pad perimeter. Map credit: Geologic Map of New Mexico (2003) at 1:500,000 scale, and Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.3 Description of Survey

For this survey 4 lines were walked in a raster pattern at 50-meter (165 feet) intervals in the designated area, providing 90 to 100% coverage for features greater than 50 centimeters (20 inches) in diameter (**Table 1, Figure 4**).

The northeast section of the study area was covered during a previous survey completed by Dave Decker on September 14, 2019. The remainder of the study area within New Mexico was surveyed by Garrett Jorgensen on September 09, 2020. While permission was obtained to enter the Texas portion of the study area, this information was not received by the field geologist (Mr. Jorgensen) by the time of the survey; therefore, this section was not covered. The total distance walked was 3.3 kilometers (2.0 miles) and the total area covered was 0.12 square kilometers (30.4 acres).

Table 1: Survey Track Data Files

File Name	Surveyor	Date	Length (km/miles)	Area (km ² /Ac)
SWGSrv_clipped.kmz	Decker	09/14/2019	1.82/1.13	0.12/30.4
YatesSrv_D1S1.kmz	Jorgensen	09/09/2020	1.44/0.89	



Figure 4: Survey overview. Red polygon is the study area. Shaded red polygon is the study area within Texas. Yellow polygon is the Yates well pad. Blue wavy lines are the actual survey lines walked (Dark blue: survey by Garrett Jorgensen. Light blue: Survey by Dave Decker). Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

The area in Texas that was not covered by the pedestrian karst survey is located within an area where the Dewey Lake red beds are exposed at the surface (which, as stated in section **2.2 Local Geology**, is a medium to fine-grained sandstone that does not support karst formation). A close inspection of the satellite imagery and a check of the New Mexico Cave and Karst Database revealed no previously known features in this area, and I am confident in stating that there are no surface karst features located within this zone.

2.4 Description of Karst Features

No surface karst features were located within the boundary of the pedestrian survey area for the Yates project site.

3.0 RECOMMENDATIONS

No surface karst features were located during this survey. Based on these findings, allowing use of medium karst occurrence zone (versus high karst occurrence zone) spill remediation procedures may be considered by the Oil Conservation Division within the survey area. Confirmation to use a lower remediation level should be received from the Oil Conservation Division before proceeding.

Vigilance during remediation is paramount. If voids are encountered during trenching or digging contact the New Mexico State Oil Conservation Division if on State land, and the Bureau of Land Management – Carlsbad Field Office at (575) 234-5972 if on BLM land and request an on-site investigation from a karst expert. A karst consultant can generally be on site in Eddy County within five hours.

4.0 REFERENCES

1. Rybacki, K., *Karst Potential Map*. CFO Basemap, 2019.
2. Scholle, P.A., *Geologic Map of New Mexico*. 2003. (1:500,000).
3. Johnson, K.S., *Evaporite Karst in the United States*. Carbonates and Evaporites, 1997. **12(1)**: p. 2-14.
4. Martinez, J.D., K.S. Johnson, and J.T. Neal, *Sinkholes in Evaporite Rocks*. American Scientist, 1998. **86(1-2)**: p. 38-51.
5. Whitehead, W. and C. Flynn, *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. 2017, Carlsbad, NM: Bureau of Land Management, Carlsbad Field Office.
6. Vine, J.D., *Surface Geology of Nash Draw Quadrangle Eddy County New Mexico*, 1963.

5.0 GLOSSARY OF TERMS

BLM	Bureau of Land Management
CFO	Carlsbad Field Office
cave	A natural opening at the surface, large enough for a person to enter.
GPS	Global Positioning System
NMSLO	New Mexico State Land Office
OCD	Oil Conservation Division
playa lake	A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
pseudokarst	Karst-like terrain that forms through processes other than dissolution.
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.
WGS	World Geodetic System



APPENDIX D

Photographic Log

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #001

Incident Numbers nAB1428734057 and NRM2011138650

**Photograph 1****Date: 05/12/2022**

Description: Northeastern view of initial Site assesment, edge of earthen berm.

**Photograph 2****Date: 05/12/2022**

Description: Southeastern view of delineation activities location of PH02. South of battery containment.

eTECH**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Yates Federal #001

Incident Numbers nAB1428734057 and NRM2011138650

**Photograph 3****Date: 05/12/2022**

Description: Southwestern view of delineation activities location of PH02, southwest edge of earthen berm.

**Photograph 4****Date: 11/09/2022**

Description: Northeastern view of delineation activities location of PH01, southwest edge of earthen berm.

APPENDIX E

Soil Sampling Logs



LITHOLOGIC / SOIL SAMPLING LOG

Sample Name: PH01	Date: 11/09/2022
Site Name: Yates Federal #001	
Incident Number: nAB1428734057 and NRM2011138650	
Job Number: 18154	
Logged By: GM	Method: Trackhoe
Hole Diameter: N/A	Total Depth: 15'

Site Coordinates: 32.00067,-103.96744

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	CCHE	0-2' bgs: CALICHE, dry, tan, well graded with silt, fine to coarse grain, few subround gravel, no staining, no odor
							SW-SM	2-14' bgs: SAND, dry, reddish brown, well graded with silt, fine to coarse grain, trace subround to subangular gravel, no staining, no odor
Dry	1,814.4	0	No	PH01	4			14-15' bgs: SANDSTONE, dry, red, well sorted, very fine to fine grain, well consolidated, abundant greyish green reduction spots (3-4mm), no staining, no odor
Dry	3,404.8	0	No	PH01	6	5		
Dry	3,404.8	0	No	PH01	9			
Dry	8,607.2	0	No	PH01	10	10		
Dry	1,394.4	0	No	PH01	12			
Dry	952.0	0	No		14		SP-S	
Dry	806.4	0	No	PH01	15	15		

Total Depth: 15 feet bgs



LITHOLOGIC / SOIL SAMPLING LOG

Sample Name: PH02	Date: 05/12/2022
Site Name: Yates Federal #001	
Incident Number: nAB1428734057 and NRM2011138650	
Job Number: 18154	
Logged By: Liz Cheli	Method: Trackhoe
Hole Diameter: N/A	Total Depth: 12'

Site Coordinates: 32.00067,-103.96744

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	<168	0.6	No		0.5	0	CCHE	0-2' bgs: CALICHE, dry, tan, well graded with silt, fine to coarse grain, few subround gravel, no staining, no odor
Dry	<168	2.4	No		2	2	SW-SM	2-12' bgs: SAND, dry, reddish brown, well graded with silt, fine to coarse grain, trace subround to subangular gravel, no staining, no odor
Dry	<168	0.6	No		4	4		
Dry	<168	0.9	No		6	6		
Dry	<168	0	No		8	8		
Drt	<168	0	No	PH02	10	10		
Dry	202.00	0	No	PH02	12	12		

Total Depth: 12 feet bgs

APPENDIX F

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Yates Federal #001
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)	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	100	600
Delineation Soil Samples - nAB1428734057 and NRM2011138650									
PH01	05/12/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,700
PH01	11/09/2022	6	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3,050
PH01	11/09/2022	9	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	3,320
PH01	05/12/2022	10	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	5,270
PH01	11/09/2022	12	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	1,210
PH01	11/09/2022	15	<0.00199	<0.00398	<49.8	<49.9	55.8	55.8	37.0
PH02	05/12/2022	10	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	157
PH02	05/12/2022	12	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	177

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

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

APPENDIX G

Laboratory Analytical Reports & Chain-of-Custody Documentation



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ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team
Ensolum
705 W. Wadley
Suite 210
Midland Texas 79701

Generated 11/22/2022 3:23:06 PM

JOB DESCRIPTION

Yates Federal #001
SDG NUMBER Rural Eddy Co

JOB NUMBER

890-3424-1

Client: Ensolum
Project/Site: Yates Federal #001

Laboratory Job ID: 890-3424-1
SDG: Rural Eddy Co

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Definitions/Glossary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Job ID: 890-3424-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-3424-1**

Receipt

The samples were received on 11/9/2022 4:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3424-1), PH01 (890-3424-2) and PH01 (890-3424-3).

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39760 and analytical batch 880-39789 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Client Sample ID: PH01

Lab Sample ID: 890-3424-1

Date Collected: 11/09/22 09:30

Matrix: Solid

Date Received: 11/09/22 16:19

Sample Depth: 6

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/14/22 15:47	11/22/22 00:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/14/22 15:47	11/22/22 00:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/22 09:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/11/22 11:45	11/14/22 13:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/11/22 11:45	11/14/22 13:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/22 11:45	11/14/22 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	11/11/22 11:45	11/14/22 13:58	1
o-Terphenyl	88		70 - 130	11/11/22 11:45	11/14/22 13:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3050		100		mg/Kg			11/17/22 09:47	20

Client Sample ID: PH01

Lab Sample ID: 890-3424-2

Date Collected: 11/09/22 09:40

Matrix: Solid

Date Received: 11/09/22 16:19

Sample Depth: 9

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 00:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/14/22 15:47	11/22/22 00:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/14/22 15:47	11/22/22 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	11/14/22 15:47	11/22/22 00:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Client Sample ID: PH01

Lab Sample ID: 890-3424-2

Date Collected: 11/09/22 09:40

Matrix: Solid

Date Received: 11/09/22 16:19

Sample Depth: 9

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	11/14/22 15:47	11/22/22 00:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/22/22 15:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/11/22 11:45	11/14/22 14:20	1
o-Terphenyl	86		70 - 130				11/11/22 11:45	11/14/22 14:20	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3320		99.6		mg/Kg			11/17/22 09:53	20

Client Sample ID: PH01

Lab Sample ID: 890-3424-3

Date Collected: 11/09/22 09:50

Matrix: Solid

Date Received: 11/09/22 16:19

Sample Depth: 12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 03:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/22/22 03:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/14/22 15:47	11/22/22 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/14/22 15:47	11/22/22 03:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/14/22 15:47	11/22/22 03:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/22/22 15:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/22 09:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Client Sample ID: PH01
Date Collected: 11/09/22 09:50
Date Received: 11/09/22 16:19
Sample Depth: 12

Lab Sample ID: 890-3424-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:42	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:42	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 14:42	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				11/11/22 11:45	11/14/22 14:42	1	
o-Terphenyl	81		70 - 130				11/11/22 11:45	11/14/22 14:42	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1210		49.7		mg/Kg			11/17/22 09:59	10	

Surrogate Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3423-A-1-D MS	Matrix Spike	104	94
890-3423-A-1-E MSD	Matrix Spike Duplicate	113	87
890-3424-1	PH01	118	108
890-3424-2	PH01	121	102
890-3424-3	PH01	109	97
LCS 880-39546/1-A	Lab Control Sample	91	82
LCSD 880-39546/2-A	Lab Control Sample Dup	99	93
MB 880-39546/5-A	Method Blank	112	92
MB 880-40068/5-A	Method Blank	101	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3423-A-1-B MS	Matrix Spike	120	111
890-3423-A-1-C MSD	Matrix Spike Duplicate	102	96
890-3424-1	PH01	88	88
890-3424-2	PH01	86	86
890-3424-3	PH01	81	81
LCS 880-39324/2-A	Lab Control Sample	103	103
LCSD 880-39324/3-A	Lab Control Sample Dup	98	99
MB 880-39324/1-A	Method Blank	99	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39546/5-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/14/22 15:47	11/21/22 22:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/14/22 15:47	11/21/22 22:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/14/22 15:47	11/21/22 22:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/14/22 15:47	11/21/22 22:20	1

Lab Sample ID: LCS 880-39546/1-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06955		mg/Kg		70	70 - 130
Toluene	0.100	0.08190		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08788		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1753		mg/Kg		88	70 - 130
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-39546/2-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07665		mg/Kg		77	70 - 130	10	35
Toluene	0.100	0.08944		mg/Kg		89	70 - 130	9	35
Ethylbenzene	0.100	0.09524		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130	9	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-3423-A-1-D MS

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.07603		mg/Kg		76	70 - 130
Toluene	<0.00199	U	0.0998	0.08510		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

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

Lab Sample ID: 890-3423-A-1-D MS

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.08975		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1800		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1033		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3423-A-1-E MSD

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07504		mg/Kg		75	70 - 130	1	35
Toluene	<0.00199	U	0.0996	0.08927		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0996	0.09882		mg/Kg		99	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1954		mg/Kg		98	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.1117		mg/Kg		112	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: MB 880-40068/5-A

Matrix: Solid

Analysis Batch: 40037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/21/22 09:48	11/21/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/21/22 09:48	11/21/22 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/21/22 09:48	11/21/22 11:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/21/22 09:48	11/21/22 11:40	1

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

Lab Sample ID: MB 880-39324/1-A

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 08:54	1

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QC Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

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

Lab Sample ID: MB 880-39324/1-A

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 08:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/22 11:45	11/14/22 08:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/11/22 11:45	11/14/22 08:54	1
o-Terphenyl	98		70 - 130				11/11/22 11:45	11/14/22 08:54	1

Lab Sample ID: LCS 880-39324/2-A

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	861.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.6		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	103		70 - 130				
o-Terphenyl	103		70 - 130				

Lab Sample ID: LCSD 880-39324/3-A

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	795.7		mg/Kg		80	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	939.5		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	99		70 - 130						

Lab Sample ID: 890-3423-A-1-B MS

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	854.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	986.0		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	111		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

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

Lab Sample ID: 890-3423-A-1-C MSD

Matrix: Solid

Analysis Batch: 39383

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	825.4		mg/Kg		80	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	857.8		mg/Kg		86	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	96		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39760/1-A

Matrix: Solid

Analysis Batch: 39789

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/17/22 08:39	1

Lab Sample ID: LCS 880-39760/2-A

Matrix: Solid

Analysis Batch: 39789

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-39760/3-A

Matrix: Solid

Analysis Batch: 39789

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-3423-A-1-I MS

Matrix: Solid

Analysis Batch: 39789

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6570	F1	2490	9845	F1	mg/Kg		132	90 - 110

Lab Sample ID: 890-3423-A-1-J MSD

Matrix: Solid

Analysis Batch: 39789

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6570	F1	2490	9876	F1	mg/Kg		133	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

GC VOA

Prep Batch: 39546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	5035	
890-3424-2	PH01	Total/NA	Solid	5035	
890-3424-3	PH01	Total/NA	Solid	5035	
MB 880-39546/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 40037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	8021B	39546
890-3424-2	PH01	Total/NA	Solid	8021B	39546
890-3424-3	PH01	Total/NA	Solid	8021B	39546
MB 880-39546/5-A	Method Blank	Total/NA	Solid	8021B	39546
MB 880-40068/5-A	Method Blank	Total/NA	Solid	8021B	40068
LCS 880-39546/1-A	Lab Control Sample	Total/NA	Solid	8021B	39546
LCSD 880-39546/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39546
890-3423-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39546
890-3423-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39546

Prep Batch: 40068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40068/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 40232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	Total BTEX	
890-3424-2	PH01	Total/NA	Solid	Total BTEX	
890-3424-3	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	8015NM Prep	
890-3424-2	PH01	Total/NA	Solid	8015NM Prep	
890-3424-3	PH01	Total/NA	Solid	8015NM Prep	
MB 880-39324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3423-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3423-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	8015B NM	39324
890-3424-2	PH01	Total/NA	Solid	8015B NM	39324
890-3424-3	PH01	Total/NA	Solid	8015B NM	39324
MB 880-39324/1-A	Method Blank	Total/NA	Solid	8015B NM	39324
LCS 880-39324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39324

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QC Association Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

GC Semi VOA (Continued)

Analysis Batch: 39383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-39324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39324
890-3423-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	39324
890-3423-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39324

Analysis Batch: 39583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Total/NA	Solid	8015 NM	
890-3424-2	PH01	Total/NA	Solid	8015 NM	
890-3424-3	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Soluble	Solid	DI Leach	
890-3424-2	PH01	Soluble	Solid	DI Leach	
890-3424-3	PH01	Soluble	Solid	DI Leach	
MB 880-39760/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39760/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39760/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3423-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3423-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3424-1	PH01	Soluble	Solid	300.0	39760
890-3424-2	PH01	Soluble	Solid	300.0	39760
890-3424-3	PH01	Soluble	Solid	300.0	39760
MB 880-39760/1-A	Method Blank	Soluble	Solid	300.0	39760
LCS 880-39760/2-A	Lab Control Sample	Soluble	Solid	300.0	39760
LCSD 880-39760/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39760
890-3423-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	39760
890-3423-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39760

Lab Chronicle

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Client Sample ID: PH01
Date Collected: 11/09/22 09:30
Date Received: 11/09/22 16:19

Lab Sample ID: 890-3424-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 00:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40232	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39583	11/15/22 09:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39324	11/11/22 11:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 13:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39760	11/16/22 21:48	KS	EET MID
Soluble	Analysis	300.0		20			39789	11/17/22 09:47	CH	EET MID

Client Sample ID: PH01
Date Collected: 11/09/22 09:40
Date Received: 11/09/22 16:19

Lab Sample ID: 890-3424-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 00:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40232	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39583	11/15/22 09:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39324	11/11/22 11:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 14:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39760	11/16/22 21:48	KS	EET MID
Soluble	Analysis	300.0		20			39789	11/17/22 09:53	CH	EET MID

Client Sample ID: PH01
Date Collected: 11/09/22 09:50
Date Received: 11/09/22 16:19

Lab Sample ID: 890-3424-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39546	11/14/22 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40037	11/22/22 03:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			40232	11/22/22 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39583	11/15/22 09:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39324	11/11/22 11:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39383	11/14/22 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39760	11/16/22 21:48	KS	EET MID
Soluble	Analysis	300.0		10			39789	11/17/22 09:59	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Yates Federal #001

Job ID: 890-3424-1
SDG: Rural Eddy Co

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3424-1	PH01	Solid	11/09/22 09:30	11/09/22 16:19	6
890-3424-2	PH01	Solid	11/09/22 09:40	11/09/22 16:19	9
890-3424-3	PH01	Solid	11/09/22 09:50	11/09/22 16:19	12

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	jhernandez@ensolum.com, jim.raley@dyn.com

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

Project Name:	Yates Federal #001	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes																
Project Number:	03A1987020	☒ Routine ☐ Rush																		None: NO DI Water: H ₂ O																
Project Location:	Rural Eddy, NM	Due Date:	5 Day TAT																	Cool: Cool MeOH: Me																
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC HNO ₃ : HN																
CC #:	1061159301																			H ₂ SO ₄ : H ₂ NaOH: Na																
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No																	H ₃ PO ₄ : HP															
Samples Received Intact:	Yes No	Thermometer ID:	TM 11007	Yes No																	NaHSO ₄ : NABIS															
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2	Yes No																	Na ₂ S ₂ O ₃ : NaSO ₃															
Sample Custody Seals:	Yes No	Temperature Reading:	4.6	Yes No																	Zn Acetate+NaOH: Zn															
Total Containers:	Yes No	Corrected Temperature:	4.4	Yes No																	NaOH+Ascorbic Acid: SAPC															



890-3424 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)																	Sample Comments
PH01	S	11.9.22	9:30	6'	Grab/1	1	X	X	X																	Incident ID
PH01	S	11.9.22	9:40	9'	Grab/1	1	X	X	X																	NAB1428734057
PH01	S	11.9.22	9:50	12'	Grab/1	1	X	X	X																	NRM201138650

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11.9.22 16:19			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3424-1

SDG Number: Rural Eddy Co

Login Number: 3424

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3424-1

SDG Number: Rural Eddy Co

Login Number: 3424

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/11/22 10:46 AM

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

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/22/2022 3:23:06 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440



Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 890-3425-1

Laboratory Sample Delivery Group: 03A1987020

Client Project/Site: YATES FEDERAL #001

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Devon Team

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

Authorized for release by:

11/14/2022 1:22:45 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Ensolum
Project/Site: YATES FEDERAL #001

Laboratory Job ID: 890-3425-1
SDG: 03A1987020

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Definitions/Glossary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Job ID: 890-3425-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3425-1

Receipt

The sample was received on 11/9/2022 4:19 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3425-1).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39278 and analytical batch 880-39279 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Client Sample ID: PH01

Lab Sample ID: 890-3425-1

Date Collected: 11/09/22 10:00

Matrix: Solid

Date Received: 11/09/22 16:19

Sample Depth: 15

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 13:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 13:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 13:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 13:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 13:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/11/22 07:54	11/11/22 13:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/11/22 07:54	11/11/22 13:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/11/22 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.8		49.8		mg/Kg			11/11/22 14:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/11/22 10:00	11/11/22 13:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/11/22 10:00	11/11/22 13:01	1
Oil Range Organics (Over C28-C36)	55.8		49.8		mg/Kg		11/11/22 10:00	11/11/22 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/11/22 10:00	11/11/22 13:01	1
o-Terphenyl	96		70 - 130	11/11/22 10:00	11/11/22 13:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.0		5.03		mg/Kg			11/11/22 21:19	1

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21410-A-7-D MS	Matrix Spike	98	118
880-21410-A-7-E MSD	Matrix Spike Duplicate	98	116
890-3425-1	PH01	91	98
LCS 880-39278/1-A	Lab Control Sample	96	112
LCSD 880-39278/2-A	Lab Control Sample Dup	91	118
MB 880-39278/5-A	Method Blank	79	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3402-A-1-G MS	Matrix Spike	86	79
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73
890-3425-1	PH01	90	96
LCS 880-39172/2-A	Lab Control Sample	94	97
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109
MB 880-39172/1-A	Method Blank	119	134 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39278/5-A

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/22 07:54	11/11/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	11/11/22 07:54	11/11/22 11:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/11/22 07:54	11/11/22 11:29	1

Lab Sample ID: LCS 880-39278/1-A

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1078		mg/Kg		108	70 - 130
Toluene	0.100	0.09299		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1884		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09176		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-39278/2-A

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1105		mg/Kg		111	70 - 130	2	35
Toluene	0.100	0.09284		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.08721		mg/Kg		87	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	6	35
o-Xylene	0.100	0.08684		mg/Kg		87	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-21410-A-7-D MS

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09370		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.07829		mg/Kg		78	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

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

Lab Sample ID: 880-21410-A-7-D MS

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.07774		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1580		mg/Kg		79	70 - 130
o-Xylene	<0.00201	U	0.100	0.07763		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-21410-A-7-E MSD

Matrix: Solid

Analysis Batch: 39279

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 39278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08232		mg/Kg		83	70 - 130	13	35
Toluene	<0.00201	U	0.0996	0.06954		mg/Kg		70	70 - 130	12	35
Ethylbenzene	<0.00201	U F1	0.0996	0.06887	F1	mg/Kg		69	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1411		mg/Kg		71	70 - 130	11	35
o-Xylene	<0.00201	U	0.0996	0.07014		mg/Kg		70	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

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

Lab Sample ID: MB 880-39172/1-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134	S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	815.5		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	846.7		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

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

Lab Sample ID: LCS 880-39172/2-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39172

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-39172/3-A
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39172

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1003	*1	mg/Kg		100	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	950.2		mg/Kg		95	70 - 130	12	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-3402-A-1-G MS
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 39172

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	55.1	*1	997	1007		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	861.7		mg/Kg		84	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-3402-A-1-H MSD
Matrix: Solid
Analysis Batch: 39269

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 39172

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	55.1	*1	999	978.6		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	796.8		mg/Kg		77	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	73		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39268/1-A

Matrix: Solid

Analysis Batch: 39312

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/11/22 08:24	1

Lab Sample ID: LCS 880-39268/2-A

Matrix: Solid

Analysis Batch: 39312

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.6		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-39268/3-A

Matrix: Solid

Analysis Batch: 39312

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-21445-A-1-B MS

Matrix: Solid

Analysis Batch: 39312

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	44.5		248	289.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-21445-A-1-C MSD

Matrix: Solid

Analysis Batch: 39312

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.5		248	282.6		mg/Kg		96	90 - 110	2	20

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QC Association Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

GC VOA

Prep Batch: 39278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	5035	
MB 880-39278/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39278/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39278/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21410-A-7-D MS	Matrix Spike	Total/NA	Solid	5035	
880-21410-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	8021B	39278
MB 880-39278/5-A	Method Blank	Total/NA	Solid	8021B	39278
LCS 880-39278/1-A	Lab Control Sample	Total/NA	Solid	8021B	39278
LCSD 880-39278/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39278
880-21410-A-7-D MS	Matrix Spike	Total/NA	Solid	8021B	39278
880-21410-A-7-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39278

Analysis Batch: 39344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Soluble	Solid	DI Leach	
MB 880-39268/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39268/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39268/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

HPLC/IC (Continued)

Leach Batch: 39268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21445-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-21445-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3425-1	PH01	Soluble	Solid	300.0	39268
MB 880-39268/1-A	Method Blank	Soluble	Solid	300.0	39268
LCS 880-39268/2-A	Lab Control Sample	Soluble	Solid	300.0	39268
LCSD 880-39268/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39268
880-21445-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	39268
880-21445-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39268

Lab Chronicle

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Client Sample ID: PH01
Date Collected: 11/09/22 10:00
Date Received: 11/09/22 16:19

Lab Sample ID: 890-3425-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39344	11/11/22 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			39338	11/11/22 14:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39172	11/11/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 13:01	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39268	11/11/22 15:00	KS	EET MID
Soluble	Analysis	300.0		1			39312	11/11/22 21:19	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: YATES FEDERAL #001

Job ID: 890-3425-1
SDG: 03A1987020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3425-1	PH01	Solid	11/09/22 10:00	11/09/22 16:19	15

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



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

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Project Manager:	Joseph Hernandez	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WPX
Address:	3122 National Parks HWY	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	281-702-2329	Email:	jhernandez@ensolum.com, jim.rale@dyn.com

Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: _____ Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
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Project Name:	Yates Federal #001	Turn Around	Pres. Code
Project Number:	03A1987020	☐ Routine ☒ Rush	
Project Location:	Rural Eddy, NM	Due Date:	24 HR
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm	
CC #:	1061159301		
SAMPLE RECEIPT Samples Received Intact: ☒ Yes ☐ No Thermometer ID: <u>7110007</u> Wet Ice: ☒ Yes ☐ No Cooler Custody Seals: ☒ Yes ☐ No N/A Correction Factor: <u>-0.2</u> Sample Custody Seals: ☒ Yes ☐ No N/A Temperature Reading: <u>4.6</u> Total Containers: <u>4.4</u> Corrected Temperature: _____			



890-3425 Chain of Custody

ANALYSIS REQUEST CHLORIDES (EPA: 300.0) TPH (8015) BTEX (8021)		Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
--	--	---

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
PH01	S	11.9.22	10:00	15'	Grab/	1	X	Incident ID
							X	NAB1428734057
							X	NRM2011138650

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11.9.22 16:19			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3425-1

SDG Number: 03A1987020

Login Number: 3425

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3425-1

SDG Number: 03A1987020

Login Number: 3425

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/11/22 10:46 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Anna Byers
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/26/2023 11:51:34 AM Revision 2

JOB DESCRIPTION

Yates Fed #001
SDG NUMBER 03a1987020

JOB NUMBER

890-2309-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

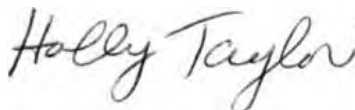
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/26/2023 11:51:34 AM
Revision 2

Authorized for release by
Holly Taylor, Project Manager
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Designee for
Jessica Kramer, Project Manager
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Client: Ensolum
Project/Site: Yates Fed #001

Laboratory Job ID: 890-2309-1
SDG: 03a1987020

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Definitions/Glossary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Job ID: 890-2309-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2309-1****Comments**

No additional comments.

Revision

The report being provided is a revision of the original report sent on 5/18/2022. The report (revision 2) is being revised to change sample ID from PH02 @2' to PH02 @12' per Gilbert Moreno (email).

Report revision history

Revision 1 - 11/15/2022 - Reason - Per client email, requesting letters A and B be removed from sample names.

Receipt

The samples were received on 5/12/2022 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.2° C.

GC VOA

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

GC Semi VOA

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25610 and analytical batch 880-25679 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

VOA Prep

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

Client Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH01

Lab Sample ID: 890-2309-1

Date Collected: 05/12/22 10:25

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/22 13:04	05/17/22 00:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/22 13:04	05/17/22 00:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/22 13:04	05/17/22 00:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/22 13:04	05/17/22 00:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/22 13:04	05/17/22 00:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/22 13:04	05/17/22 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/16/22 13:04	05/17/22 00:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/16/22 13:04	05/17/22 00:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/17/22 11:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/22 09:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/16/22 08:41	05/16/22 15:15	1
o-Terphenyl	101		70 - 130	05/16/22 08:41	05/16/22 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700	F1	50.0		mg/Kg			05/17/22 21:46	10

Client Sample ID: PH01

Lab Sample ID: 890-2309-2

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 10

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/17/22 00:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/17/22 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/17/22 00:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/16/22 13:04	05/17/22 00:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/17/22 00:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/16/22 13:04	05/17/22 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	05/16/22 13:04	05/17/22 00:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH01

Lab Sample ID: 890-2309-2

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 10

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/22 13:04	05/17/22 00:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/17/22 11:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/22 09:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 15:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 15:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				05/16/22 08:41	05/16/22 15:36	1
o-Terphenyl	104		70 - 130				05/16/22 08:41	05/16/22 15:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5270		99.8		mg/Kg			05/17/22 22:05	20

Client Sample ID: PH02

Lab Sample ID: 890-2309-3

Date Collected: 05/12/22 12:00

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 10

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 00:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 00:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 00:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/16/22 13:04	05/17/22 00:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 00:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/16/22 13:04	05/17/22 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/16/22 13:04	05/17/22 00:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/16/22 13:04	05/17/22 00:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/17/22 11:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/22 09:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH02

Lab Sample ID: 890-2309-3

Date Collected: 05/12/22 12:00

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 10

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/16/22 08:41	05/16/22 15:58	1
o-Terphenyl	107		70 - 130				05/16/22 08:41	05/16/22 15:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		25.0		mg/Kg			05/17/22 22:11	5

Client Sample ID: PH02

Lab Sample ID: 890-2309-4

Date Collected: 05/12/22 12:05

Matrix: Solid

Date Received: 05/12/22 16:43

Sample Depth: 12

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/16/22 13:04	05/17/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				05/16/22 13:04	05/17/22 01:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/16/22 13:04	05/17/22 01:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/17/22 11:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/22 09:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/22 08:41	05/16/22 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/16/22 08:41	05/16/22 16:20	1
o-Terphenyl	107		70 - 130				05/16/22 08:41	05/16/22 16:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH02
Date Collected: 05/12/22 12:05
Date Received: 05/12/22 16:43
Sample Depth: 12

Lab Sample ID: 890-2309-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		24.8		mg/Kg			05/17/22 22:18	5

Surrogate Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2308-A-1-C MS	Matrix Spike	105	94
890-2308-A-1-D MSD	Matrix Spike Duplicate	106	96
890-2309-1	PH01	114	94
890-2309-2	PH01	115	95
890-2309-3	PH02	109	97
890-2309-4	PH02	115	96
LCS 880-25634/1-A	Lab Control Sample	103	95
LCSD 880-25634/2-A	Lab Control Sample Dup	101	94
MB 880-25578/5-A	Method Blank	101	93
MB 880-25634/5-A	Method Blank	103	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2307-A-1-C MS	Matrix Spike	100	88
890-2307-A-1-D MSD	Matrix Spike Duplicate	98	87
890-2309-1	PH01	100	101
890-2309-2	PH01	100	104
890-2309-3	PH02	104	107
890-2309-4	PH02	107	107
LCS 880-25590/2-A	Lab Control Sample	113	104
LCSD 880-25590/3-A	Lab Control Sample Dup	108	104
MB 880-25590/1-A	Method Blank	113	123

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25578/5-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/22 16:33	05/16/22 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/22 16:33	05/16/22 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/22 16:33	05/16/22 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/22 16:33	05/16/22 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/22 16:33	05/16/22 11:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/22 16:33	05/16/22 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/15/22 16:33	05/16/22 11:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/15/22 16:33	05/16/22 11:44	1

Lab Sample ID: MB 880-25634/5-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25634

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/16/22 22:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 13:04	05/16/22 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/22 13:04	05/16/22 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/16/22 13:04	05/16/22 22:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/22 13:04	05/16/22 22:21	1

Lab Sample ID: LCS 880-25634/1-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09542		mg/Kg		95	70 - 130
Toluene	0.100	0.1003		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-25634/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	9	35

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QC Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

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

Lab Sample ID: LCSD 880-25634/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09254		mg/Kg		93	70 - 130	8	35
Ethylbenzene	0.100	0.09409		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2308-A-1-C MS

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.07755		mg/Kg		77	70 - 130
Toluene	<0.00199	U	0.101	0.08392		mg/Kg		83	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08638		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1758		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U	0.101	0.08967		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2308-A-1-D MSD

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08053		mg/Kg		80	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.08566		mg/Kg		85	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.08559		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1783		mg/Kg		89	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.09019		mg/Kg		90	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-25590/1-A

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 11:32	1

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QC Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

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

Lab Sample ID: MB 880-25590/1-A

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 11:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:41	05/16/22 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/16/22 08:41	05/16/22 11:32	1
o-Terphenyl	123		70 - 130				05/16/22 08:41	05/16/22 11:32	1

Lab Sample ID: LCS 880-25590/2-A

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1299		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	927.4		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	104		70 - 130				

Lab Sample ID: LCSD 880-25590/3-A

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25590

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	884.5		mg/Kg		88	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 890-2307-A-1-C MS

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1269		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	903.5		mg/Kg		90	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	88		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

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

Lab Sample ID: 890-2307-A-1-D MSD

Matrix: Solid

Analysis Batch: 25580

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1250		mg/Kg		121	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	948.0		mg/Kg		95	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	87		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25610/1-A

Matrix: Solid

Analysis Batch: 25679

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/22 21:27	1

Lab Sample ID: LCS 880-25610/2-A

Matrix: Solid

Analysis Batch: 25679

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.3		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-25610/3-A

Matrix: Solid

Analysis Batch: 25679

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.6		mg/Kg		104	90 - 110	5	20

Lab Sample ID: 890-2309-1 MS

Matrix: Solid

Analysis Batch: 25679

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1700	F1	2500	4240		mg/Kg		102	90 - 110

Lab Sample ID: 890-2309-1 MSD

Matrix: Solid

Analysis Batch: 25679

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1700	F1	2500	4752	F1	mg/Kg		122	90 - 110	11	20

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QC Association Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

GC VOA

Prep Batch: 25578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25578/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	8021B	25634
890-2309-2	PH01	Total/NA	Solid	8021B	25634
890-2309-3	PH02	Total/NA	Solid	8021B	25634
890-2309-4	PH02	Total/NA	Solid	8021B	25634
MB 880-25578/5-A	Method Blank	Total/NA	Solid	8021B	25578
MB 880-25634/5-A	Method Blank	Total/NA	Solid	8021B	25634
LCS 880-25634/1-A	Lab Control Sample	Total/NA	Solid	8021B	25634
LCSD 880-25634/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25634
890-2308-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	25634
890-2308-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25634

Prep Batch: 25634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	5035	
890-2309-2	PH01	Total/NA	Solid	5035	
890-2309-3	PH02	Total/NA	Solid	5035	
890-2309-4	PH02	Total/NA	Solid	5035	
MB 880-25634/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25634/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25634/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2308-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2308-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	Total BTEX	
890-2309-2	PH01	Total/NA	Solid	Total BTEX	
890-2309-3	PH02	Total/NA	Solid	Total BTEX	
890-2309-4	PH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	8015B NM	25590
890-2309-2	PH01	Total/NA	Solid	8015B NM	25590
890-2309-3	PH02	Total/NA	Solid	8015B NM	25590
890-2309-4	PH02	Total/NA	Solid	8015B NM	25590
MB 880-25590/1-A	Method Blank	Total/NA	Solid	8015B NM	25590
LCS 880-25590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25590
LCSD 880-25590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25590
890-2307-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25590
890-2307-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25590

Prep Batch: 25590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

GC Semi VOA (Continued)

Prep Batch: 25590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-2	PH01	Total/NA	Solid	8015NM Prep	
890-2309-3	PH02	Total/NA	Solid	8015NM Prep	
890-2309-4	PH02	Total/NA	Solid	8015NM Prep	
MB 880-25590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2307-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2307-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Total/NA	Solid	8015 NM	
890-2309-2	PH01	Total/NA	Solid	8015 NM	
890-2309-3	PH02	Total/NA	Solid	8015 NM	
890-2309-4	PH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Soluble	Solid	DI Leach	
890-2309-2	PH01	Soluble	Solid	DI Leach	
890-2309-3	PH02	Soluble	Solid	DI Leach	
890-2309-4	PH02	Soluble	Solid	DI Leach	
MB 880-25610/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25610/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25610/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2309-1 MS	PH01	Soluble	Solid	DI Leach	
890-2309-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 25679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2309-1	PH01	Soluble	Solid	300.0	25610
890-2309-2	PH01	Soluble	Solid	300.0	25610
890-2309-3	PH02	Soluble	Solid	300.0	25610
890-2309-4	PH02	Soluble	Solid	300.0	25610
MB 880-25610/1-A	Method Blank	Soluble	Solid	300.0	25610
LCS 880-25610/2-A	Lab Control Sample	Soluble	Solid	300.0	25610
LCSD 880-25610/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25610
890-2309-1 MS	PH01	Soluble	Solid	300.0	25610
890-2309-1 MSD	PH01	Soluble	Solid	300.0	25610

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Lab Chronicle

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH01

Date Collected: 05/12/22 10:25

Date Received: 05/12/22 16:43

Lab Sample ID: 890-2309-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25634	05/16/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1			25591	05/17/22 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			25708	05/17/22 11:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			25682	05/17/22 09:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25590	05/16/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 15:15	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	25610	05/16/22 10:43	CH	EET MID
Soluble	Analysis	300.0		10			25679	05/17/22 21:46	CH	EET MID

Client Sample ID: PH01

Date Collected: 05/12/22 10:30

Date Received: 05/12/22 16:43

Lab Sample ID: 890-2309-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25634	05/16/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1			25591	05/17/22 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			25708	05/17/22 11:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			25682	05/17/22 09:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25590	05/16/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 15:36	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25610	05/16/22 10:43	CH	EET MID
Soluble	Analysis	300.0		20			25679	05/17/22 22:05	CH	EET MID

Client Sample ID: PH02

Date Collected: 05/12/22 12:00

Date Received: 05/12/22 16:43

Lab Sample ID: 890-2309-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25634	05/16/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1			25591	05/17/22 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			25708	05/17/22 11:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			25682	05/17/22 09:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25590	05/16/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 15:58	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	25610	05/16/22 10:43	CH	EET MID
Soluble	Analysis	300.0		5			25679	05/17/22 22:11	CH	EET MID

Client Sample ID: PH02

Date Collected: 05/12/22 12:05

Date Received: 05/12/22 16:43

Lab Sample ID: 890-2309-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25634	05/16/22 13:04	MNR	EET MID
Total/NA	Analysis	8021B		1			25591	05/17/22 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			25708	05/17/22 11:08	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Client Sample ID: PH02
Date Collected: 05/12/22 12:05
Date Received: 05/12/22 16:43

Lab Sample ID: 890-2309-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25682	05/17/22 09:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25590	05/16/22 08:41	DM	EET MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 16:20	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25610	05/16/22 10:43	CH	EET MID
Soluble	Analysis	300.0		5			25679	05/17/22 22:18	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: Yates Fed #001

Job ID: 890-2309-1
SDG: 03a1987020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2309-1	PH01	Solid	05/12/22 10:25	05/12/22 16:43	4
890-2309-2	PH01	Solid	05/12/22 10:30	05/12/22 16:43	10
890-2309-3	PH02	Solid	05/12/22 12:00	05/12/22 16:43	10
890-2309-4	PH02	Solid	05/12/22 12:05	05/12/22 16:43	12

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

Chain of Custody

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

Environment Testing

Xenco



Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Anna Byers	Bill to: (if different)	Jim Raley
Company Name:	Ensolum	Company Name:	WP X Devon
Address:	3122 Natl. Parks Hwy	Address:	5315 Buena Vista Dr.
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	575-200-6754	Email:	a.byers@ensolum.com

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

ANALYSIS REQUEST		Preservative Codes	
Project Name:	Yates Fed. #001	None: NO	DI Water: H ₂ O
Project Number:	03A1987020	Cool: Cool	MeOH: Me
Project Location:	YATES Fed. #001	HCL: HC	HNO ₃ : HN
Sampler's Name:	Liz Chelli	H ₂ SO ₄ : H ₂	NaOH: Na
PO #:		H ₃ PO ₄ : HP	
SAMPLE RECEIPT Samples Received Intact: Yes ☒ No ☐ Temp Blank: Yes ☒ No ☐ Cooler Custody Seals: Yes ☒ No ☐ Thermometer ID: 100077 Sample Custody Seals: Yes ☒ No ☐ Correction Factor: -0.2 Total Containers: 8.4 Temperature Reading: 8.4 Corrected Temperature: 8.2		DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	
Turn Around: ☒ Routine ☐ Rush Due Date: TAT starts the day received by the lab, if received by 4:30pm		ANALYSIS REQUEST 890-2309 Chain of Custody	
Sample Identification	Matrix	Date Sampled	Time Sampled
PHD1A	S	5/12/22	10:25
PHD1B	S	5/12/22	10:30
PHD2A	S	5/12/22	12:00
PHD2B	S	5/12/22	12:05
Grab/Comp Depth Time Sampled Date Matrix Sample Identification		Parameters Pres. Code Turn Around Due Date TAT starts the day received by the lab, if received by 4:30pm	
Grab/Comp Depth Time Sampled Date Matrix Sample Identification		Parameters Pres. Code Turn Around Due Date TAT starts the day received by the lab, if received by 4:30pm	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Date/Time	Date/Time	Date/Time	Date/Time
5/12/22 16:43	5/12/22 16:43		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2309-1

SDG Number: 03a1987020

Login Number: 2309

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2309-1

SDG Number: 03a1987020

Login Number: 2309

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/16/22 09:25 AM

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

APPENDIX H

NMOCD Notifications

From: [Erick Herrera](#)
To: [Joseph Hernandez](#)
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)
Date: Tuesday, December 20, 2022 4:46:57 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 3:58 PM
To: Erick Herrera <eherrera@ensolum.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

[**EXTERNAL EMAIL**]

Erick

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, November 2, 2022 11:54 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Erick Herrera <eherrera@ensolum.com>
Sent: Wednesday, November 2, 2022 11:52 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO_Spill, BLM_NM' <blm_nm_cfo_spill@blm.gov>
Cc: Raley, Jim <jim.raley@dyn.com>; Devon-Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (11/7 - 11/11)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between November 7th – November 11th, 2022:

Site Name: LVP #001
API: 30-015-42234
Incident Number: nAPP2135033453

Site Name: RDX 21-44
API: 30-015-41193
Incident Number: nAPP2115533694

Site Name: UCBH WW ROW
API: 30-015-24451, 30-015-24034
Incident Numbers: nAB1805133508, nAB1501655607, nAB1522341642, nAB1621453181, nAB1633639499

Site Name: Ross Draw Unit #034
API: 30-015-41578
Incident Numbers: nAPP2107554265, NAB1736055339, and NAB1528240224

Site Name: Yates Federal #001
API: 30-015-24602
Incident Number: NRM2011138650 and NAB1428734057

Site Name: Pecos Federal #001Y
API: 30-015-24875

Incident Number: nAPP2208846424

Site Name: MWJ Federal 1

API: 30-015-24262

Incident Numbers: nAB1503440420, nAB1524652333, and nAB1719940724



Erick Herrera

Staff Geologist

281-777-4152

Ensolum, LLC

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PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC

8330 LBJ Freeway, Ste. B830

Dallas, TX 75243

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

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

CONDITIONS

Action 227725

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 227725
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Work plan approved with the following condition:	11/27/2023
amaxwell	Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area.	11/27/2023
amaxwell	Submit report via the OCD permitting portal by February 19, 2024.	11/27/2023

From: [Dave Decker](#)
To: [Joseph Hernandez](#); [Anna Byers](#)
Subject: OCD request for written response.
Date: Thursday, March 20, 2025 12:27:09 PM

Dear Mr. Hernandez and Ms. Byers.

At the request of the NMOCD office per your March 17, 2025 email, I am writing to provide my professional opinion on the near surface geology of the Yates Federal No. 001 release and surrounding area. Based on our surface karst survey, and the results of the resistivity study, I am confident that the area within the 200-foot (61-meter) boundary is stable ground. Similar geology exists outside of the 200-foot (61-meter) boundary out to the 200-meter boundary and south of State Line Road, with no indication of subsidence occurring; therefore, I am reasonably confident that the area outside of the 200-foot (61-meter) boundary, inside the 200-meter boundary, and south of State Line Road is also stable. Outside of these described borders there are several areas that are consistent with unstable ground, specifically north of State Line Road, just inside the 200-meter boundary, and east of the project site, outside the 200-meter boundary but within the 305-meter boundary.

Keep in mind that without conducting a much larger geophysical survey in the area outside of the 200-foot (61-meter) and within the 200-meter boundary and south of Stateline Road, 100% confidence is not warranted and cannot be given. Please let me know if there are any further questions.

Sincerely,

Dave Decker, PhD, PG, CPG
CEO, Principal Geologist
Southwest Geophysical Consulting, LLC
DUNS: 080354190
CAGE: 7PHW9
dave@swgeophys.com
(505) 585-2550
SDVOSB

From: [Joseph Hernandez](#)
To: [Hall, Brittany, EMNRD](#)
Cc: [Romero, Rosa, EMNRD](#); [Smith, Cory, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Jim Raley](#); [Dave Decker](#); [Anna Byers](#)
Subject: [EXTERNAL] Re:
Date: Friday, March 21, 2025 7:57:37 AM
Attachments: [Outlook-ujsauhpu.png](#)
[OCD request for written response..msg](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Brittany,

Hope your week has been well. As requested, I've attached Mr. Decker's response to this email and have included him as well for further assistance if needed.

Let me know if you have any questions or concerns. Have a great weekend.

Thanks,



Joseph Hernandez
Senior Managing Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6413

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Friday, March 14, 2025 3:21 PM
To: Raley, Jim <Jim.Raley@dmn.com>; Joseph Hernandez <joseph@etechenv.com>
Cc: Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject:

Mr. Raley and Mr. Hernandez,

After reviewing the included *Environmental Karst Study Report*, OCD reached out to Dr. David Decker to get clarification of the whether the area can be considered stable due to the findings on Table 1: Karst Feature Data Table. Dr. Decker clarified that area within the 200-foot survey boundary, and along/surrounding the survey lines used to perform the geophysical survey were considered stable. Dr. Decker also clarified that features found within the 305-meter boundary but outside of the 200-meter survey were gathered from other databases (not data gathered during any field activities).

Per 19.15.29.12 C.(4)(g) NMAC, If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: within an unstable area. Per 19.15.2.7 U. (6) NMAC, **"Unstable area"** means 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.

As the rules do not indicate that an "unstable area" is determined within a certain boundary of the release and the desktop study for this release indicated that potential karst features may exist within the survey boundaries, could WPX/Etech reach out to Dr. Decker and either:

1. Obtain a written response that the geology of not only the release area but the surrounding areas are stable, in his professional opinion; or
2. Due to the presence of potential karst features located within the 305-meter survey boundary the area of the survey(s) could include an "unstable area" and amend the report to reflect the change.

Please send, via email, a copy of written correspondence from Dr. Decker's confirmation that the area is stable or send a revised version of the *Environmental Karst Study Report*. If the karst study is revised, I will replace the current version in the applications.

Please be advised, the "spill delineation boundary" that is provided to the karst professional needs to be based on the horizontally delineation samples collected at the site. The "spill delineation boundary" depicted in this karst report appears to only include the well pad.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/oed/oed-announcements-and-notifications/> under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/oed/oed-announcements-and-notifications/> or <https://www.emnrd.nm.gov/oed/oed-forms/>.

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 438783

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1428734057
Incident Name	NAB1428734057 YATES FEDERAL #001 @ 30-015-24602
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-24602] YATES FEDERAL #001

Location of Release Source

Please answer all the questions in this group.

Site Name	YATES FEDERAL #001
Date Release Discovered	10/03/2014
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	Cause: Other Gas Well Crude Oil Released: 5 BBL Recovered: 4 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Produced Water Released: 11 BBL Recovered: 11 BBL Lost: 0 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.

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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, Page 2

Action 438783

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	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: 03/04/2025
--	--

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, Page 3

Action 438783

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (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	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	10400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1910
GRO+DRO (EPA SW-846 Method 8015M)	852
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	02/26/2024
On what date will (or did) the final sampling or liner inspection occur	12/31/2026
On what date will (or was) the remediation complete(d)	12/31/2026
What is the estimated surface area (in square feet) that will be reclaimed	50194
What is the estimated volume (in cubic yards) that will be reclaimed	7436
What is the estimated surface area (in square feet) that will be remediated	50194
What is the estimated volume (in cubic yards) that will be remediated	7436
<i>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.</i>	
<i>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.</i>	

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, Page 4

Action 438783

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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
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.
<i>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>	
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@dmn.com Date: 03/05/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 438783

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 438783

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	393722
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/25/2024
What was the (estimated) number of samples that were to be gathered	80
What was the sampling surface area in square feet	18983

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

Action 438783

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 438783
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	4/4/2025
bhall	Based on the karst professional's opinion, OCD agrees that the site is considered stable and the closure criteria based on the depth to groundwater will be used. OCD approves the use of the following for closure criteria: TPH-2,500 mg/kg; GRO+DRO= 1,000 mg/kg; BTEX- 50 mg/kg; benzene-10 mg/kg; chloride: 10,000 mg/kg. As stated in previous denials OCD will not accept the background chloride concentrations as TPH was found in the background borings. The surface owner must also approve these closure criteria. The more stringent criteria must be used.	4/4/2025
bhall	TPH contamination found in the background boreholes must be remediated and the areas must be reclaimed at time of remediation.	4/4/2025
bhall	OCD approves a variance for excavation confirmation soil samples to represent a maximum of 400 square feet per five-point composite soil sample.	4/4/2025
bhall	If any soil is to be left in place around active infrastructure, that area must qualify for a deferral and a deferral request must be submitted to the OCD. If the area does not qualify for a deferral the soils must be remediated.	4/4/2025
bhall	Excavation extents may need to be advanced past the proposed depths and lateral extents if contamination is above the applicable closure criteria and/or reclamation requirements for contamination located in areas that are not reasonably needed for production and subsequent drilling activities.	4/4/2025
bhall	If karst features are encountered during excavation, activities at the site should be suspended and OCD and the surface owner must be notified immediately.	4/4/2025
bhall	If karst features are encountered during remediation activities, the releases must be remediated to the most stringent closure criteria.	4/4/2025
bhall	OCD does not approve of the 12/31/2026 request to the C-141 question "On what date will (or was) the remediation complete(d)".	4/4/2025
bhall	Submit a complete and accurate report through the OCD Permitting website by August 29, 2025.	4/4/2025