



SITE CHARACTERIZATION AND REMEDATION PLAN ADDENDUM

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

Site Information:

Barbados State #001 SWD

Incident Number nAB1619656595

Unit I, Section 32, Township 23 South, Range 26 East

Eddy County, New Mexico

(32.34621, -104.308265)

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



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan Addendum (SCRPA) detailing site assessment and delineation soil sampling activities associated with inadvertent release of produced water at the Barbados State #001 SWD (Site). Based on laboratory analytical results from soil sampling activities at the Site, WPX proposes this RWP, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit I, Section 32, Township 23 South, Range 26 East, in Eddy County, New Mexico (32.34621°, -104.308265°) and is associated with oil and gas exploration and production operations on State Land (**Figure 1 in Appendix A**).

On June 28, 2016, it was discovered that corrosion of a 2-inch valve on a pump discharge line resulted in approximately 65 barrels (bbls) of produced water to be released and contained on the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 60 bbls of free-standing fluids. The day following release discovery, immediate notice was given to the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) via phone and email. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on July 12, 2016, and was assigned Incident Number nAB1619656595. The observed extent of the release is presented in **Figure 2 in Appendix A**.

Due to a portion of the release impacting areas off pad, a Right of Entry (ROE) Permit to access pasture soil surrounding the Site was required. WPX contracted SWCA Environmental Consultants (SWCA) to conduct a cultural survey of the requested area, as required in the Cultural Properties Protection Rule, and submitted the ROE in preparation for soil characterization and/or remediation activities. The completed *NMSLO Cultural Resources Cover Sheet Exhibit A* form is included in **Appendix B**. The Site is located within a potential Scheer's Beehive Cactus habitat and a potential Wright's Water-Willow habitat, and as such, biological surveys were required. The biological surveys were negative for both habitats, and the survey is included in **Appendix C**. Executed permit RE-6694 was issued on September 18, 2023, prior to accessing pasture soil for remediation purposes. In order to prepare for additional drilling activities detailed in this SCRPA, permit RE-6694 was reissued on June 3, 2024.

Prior to the continuation of drilling activities and reissuance of permit RE-6694, Etech prepared a Site Characterization and Remediation Plan (SCRPA) report, which was submitted to the NMOCD for review on August 19, 2024. The SCRPA detailed delineation activities that were completed up through February 6, 2024, and proposed the continuation of delineation activities with a scheduled start date and anticipated duration of completion. The NMOCD denied the report on December 19, 2024, for the following reasons:

- *"Remediation plan rejected as it does not meet the requirements of 19.15.29.12C.(1) NMAC. Delineation of the site is incomplete. The estimated volume of impacted material to be remediated is incomplete and there is not a proposed timeline for remediation activities. Submit a complete and accurate report through the OCD permitting website by 1/24/2025."*

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.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on a recent depth to groundwater measurement of United States Geological Survey (USGS) well 322117104183501, located approximately 0.5-mile northwest of the Site. The well was advanced to a total of 140 feet bgs and depth to groundwater was most recently recorded on January 30, 2018, and measured 94.9 feet bgs. Another well located approximately 0.5-mile northeast of the Site indicates depth to groundwater is greater than 100 ft bgs, however, the measurement data is from 2001, and as such, the estimated depth to groundwater at the Site is based off the most recent of the two groundwater measurements. Referenced well records are provided as **Appendix D**. The well locations and additional regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

Based on the desktop review, the current BLM Carlsbad Field Office (CFO) karst cave potential map indicates the Site overlies a designated critical karst potential zone. As such, WPX retained Southwest Geophysical Consulting, LLC (Southwest Geophysical) to conduct an aerial karst survey at the Site prior to initiating any ground disturbance. In conjunction with Google Earth Pro (2019) satellite and aerial imagery and imagery of the Site collected on August 23, 2023, Southwest Geophysical analyzed all available imagery of the Site and identified one surface karst feature of “high-likelihood” and three surface karst features of “medium-likelihood” within the survey area. Since planned remediation activities were not anticipated to be near any of these locations, it was not required that the identified surface karst features had to be field verified or that a karst monitor needed to be present during scheduled remediation activities. The complete summary of the aerial karst survey is included in **Appendix E**.

According to the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) Viewer, the Site overlaps a 100-year floodplain. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review, specifically the designated karst potential 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)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

[†]The reclamation standard 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.



DELINEATION SOIL SAMPLING ACTIVITIES

On July 6, 2023, Etech conducted delineation soil sampling activities to confirm details of the release provided on the Form C-141 and to characterize the release by verifying the presence or absence of impacted soil. Two delineation borings (BH01 and BH02) were advanced via mechanical equipment, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected at a 5-foot interval maximum from each delineation soil sampling location for laboratory analyses, representing at minimum the highest observed field screening concentrations and the greatest depth. Upon completion of BH02, Etech concluded that equipment limitations would inhibit achievement of further delineation. A drill rig was scheduled to return to continue delineation activities.

On January 24 through February 6, 2024, Etech returned to the Site equipped with a drill rig to continue delineation soil sampling activities. Twenty-six delineation boreholes (BH01 through BH26) were advanced to continue assessing the lateral and vertical extent of the release. Delineation activities were driven by field screening soil for VOCs and chloride as previously described. Soil samples were collected at a 5-foot interval maximum from each delineation soil sampling location up to 29 feet bgs for laboratory analyses, representing at minimum the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions from all delineation activities are included on soil sampling logs shown in **Appendix F**. The locations of the delineation soil samples are shown in **Figure 2** and **Figure 2A** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix G**.

On September 9 through September 12, 2024, Etech returned to the Site equipped with a sonic drill rig to continue delineation soil sampling activities as proposed in the SCRP. Eighteen delineation boreholes (BH02 and BH27 through BH43) were advanced to continue assessing the lateral and vertical extent of the release. Delineation activities were driven by field screening soil for VOCs and chloride as previously described. Soil samples were collected at a 5-foot interval maximum from each delineation soil sampling location up to 29 feet bgs for laboratory analyses, representing at minimum the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions from all delineation activities are included on soil sampling logs shown in **Appendix F**. The locations of the delineation soil samples are shown in **Figure 2** and **Figure 2A** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix G**.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of Benzene and BTEX for all delineation soil samples were below the applicable Site Closure Criteria; Laboratory analytical results of TPH for all delineation soil samples were below the applicable Site Closure Criteria, except soil samples collected from BH07 (0.5 feet bgs and 4 feet bgs) and BH13 (0.5 feet bgs). Laboratory analytical results indicated chloride concentrations exceeded the applicable Site Closure Criteria up to 24 feet bgs at sampling locations BH01 through BH16 and BH19 through BH24.

All terminus soil samples were below the applicable Site Closure Criteria. Laboratory analytical results are summarized in Table 1 in **Attachment H**, and the complete laboratory reports with chain-of-custody documentation is included in **Attachment I**.



PROPOSED REMEDIATION WORK PLAN

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

- The extent of residual impacts extends beyond the observed subject release area. As such, an Area of Concern (AOC) was created to encompass all identified residual impacts as per laboratory analytical results in respect to Site Closure Criteria and observed vegetative stress (**Figure 2** and **Figure 3** in **Appendix A**).
- BTEX and TPH concentrations were below the Site Closure Criteria for all delineation soil samples, except at BH07 and BH13. TPH concentrations exist up to 4 feet bgs within the vicinity of soil sampling locations BH07 and BH13, characterized by concentrations ranging from 145 mg/kg to 2,870 mg/kg.
- Identified chloride impacts per Site Closure Criteria, characterized by concentrations ranging from 656 mg/kg to 6,150 mg/kg, exist up to 24 feet bgs throughout the AOC. Laboratory analytical results for chloride concentrations for the remaining delineation soil samples surrounding the AOC are below the Site Closure Criteria.
- The terminus soil sample for all borings were in compliance with the applicable Site Closure Criteria, and as such provide sufficient vertical delineation.
- Laboratory analytical results for all delineation soil samples surrounding the AOC were below the applicable Site Closure Criteria, and as such, provide sufficient lateral delineation.
- A aerial karst survey was conducted at the Site in 2023, and identified karst features within the survey boundary around the Site.

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

- WPX proposes to re-evaluate the Site as an “unstable area” 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 proposes to retain Southwest Geophysical to perform an electrical resistivity imaging (ERI) survey and submit to the SLO for review. If the Site is determined to be determined a “stable area”, the Site Closure Criteria will be updated accordingly with agreeance of all appropriate regulatory agencies, and an excavation will be advanced accordingly.



- If the Site is determined to be an “unstable area”, the Site Closure Criteria will remain the same standards as presented in the “SITE CHARACTERIZATION AND CLOSURE CRITERIA” section of this report, however, WPX requests a variance to excavate the AOC up to 5 feet bgs and install an approved geosynthetic clay liner on the excavation floor at 5 feet bgs, totaling a removal of approximately 11,000 cubic yards of residual impacted soil. An open, engineered excavation advanced up to 29 feet bgs in and “unstable area” would create a greater potential to encounter and expose karst feature(s) and increase risk for human health of personnel on location and creating and/or opening a conduit for impacts to groundwater. Additionally, advancing an excavation up to 29 feet bgs would nearly double the area of disturbance versus the removal of impacts solely within the AOC, which in turn disturbs twice as much vegetation. It should be noted that portions of the AOC excavated to 4 feet bgs are anticipated to be in compliance with the Site Closure Criteria and/or reclamation standards. As such, WPX proposes that this area(s) not to be lined with a geosynthetic clay liner (**Figure 3 in Appendix A**).
- Due to the size of the anticipated excavation area, WPX requests a soil sampling variance consisting of:
 - Excavation confirmation soil samples to represent a maximum of 200 square feet per soil sample from the excavation sidewalls, and;
 - Collecting excavation confirmation soil samples, representing a maximum of 400 square feet per soil sample, from the portion of the excavation floor where not covered by a geosynthetic liner (**Figure 3 in Appendix A**). Due to the 22 delineation soil sampling locations within the AOC, WPX believes that the site has been sufficiently characterized and requests that excavation confirmation floor soil samples not be collected throughout the footprint of the proposed liner. 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.
- The proposed excavation may potentially 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:
 - Shifting the proposed excavation extent(s) to adhere to established buffer zone(s) around one or more utilities.
 - Inducing a change in proposed excavation(s) depth(s) around one or more utilities.

If applicable, all communication with third-party operator excavation requirements will be documented and presented to the NMOCD and NMSLO.

- Upon receipt and review of excavation confirmation soil sample laboratory analytical results, WPX will determine the appropriate measure of corrective actions that will include:
 - Preparing land access permits, submit ROE to NMSLO for review, and scheduling any required biological surveys prior to advancing an excavation upon the ROE approval; and
 - 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."

PROPOSED TIMELINE

Plugging and abandonment (P&A) activities of the SWD well on the Site were completed on December 4, 2024. Upon notification of equipment removal and approval of this SCRPA, Etech will renew the executed ROE permit RE-6694 and initiate coordination efforts for remediation activities outlined in this SCRPA. Please note that a reissuance of an ROE may take up to 4 weeks for processing and approval, and as such, no surface disturbance will be permitted until land access has been granted.

LIMITATIONS

Etech has prepared this SCRPA to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Based on the proposed scope of work, WPX believes the proposed remedial actions detailed in this SCRPA will meet the requirements set forth in NMAC 19.15.29.13 regulations to be protective of human health, the environment, and groundwater. If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Anna Byers at (432) 305-6415 or anna@etechenv.com. Email correspondence and notification receipts regarding Site activities are included in **Appendix J**. 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
New Mexico State Land Office



Appendices:

Appendix A	Figure 1: Site Location Map Figure 1A: Site Characterization Map – Groundwater Figure 1B: Site Characterization Map – Surficial Receptors Figure 1C: Site Characterization Map – Karst Potential Figure 2: Delineation Soil Sample Locations Figure 2A: Delineation Soil Sample Locations Figure 3: Proposed Excavation Plan
Appendix B	NMSLO Cultural Resources Cover Sheet Exhibit A
Appendix C	Biological Survey Report
Appendix D	Referenced Well Records
Appendix E	Aerial 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	Correspondence & Notifications
Appendix K	Archived Reports

APPENDIX A

Figures

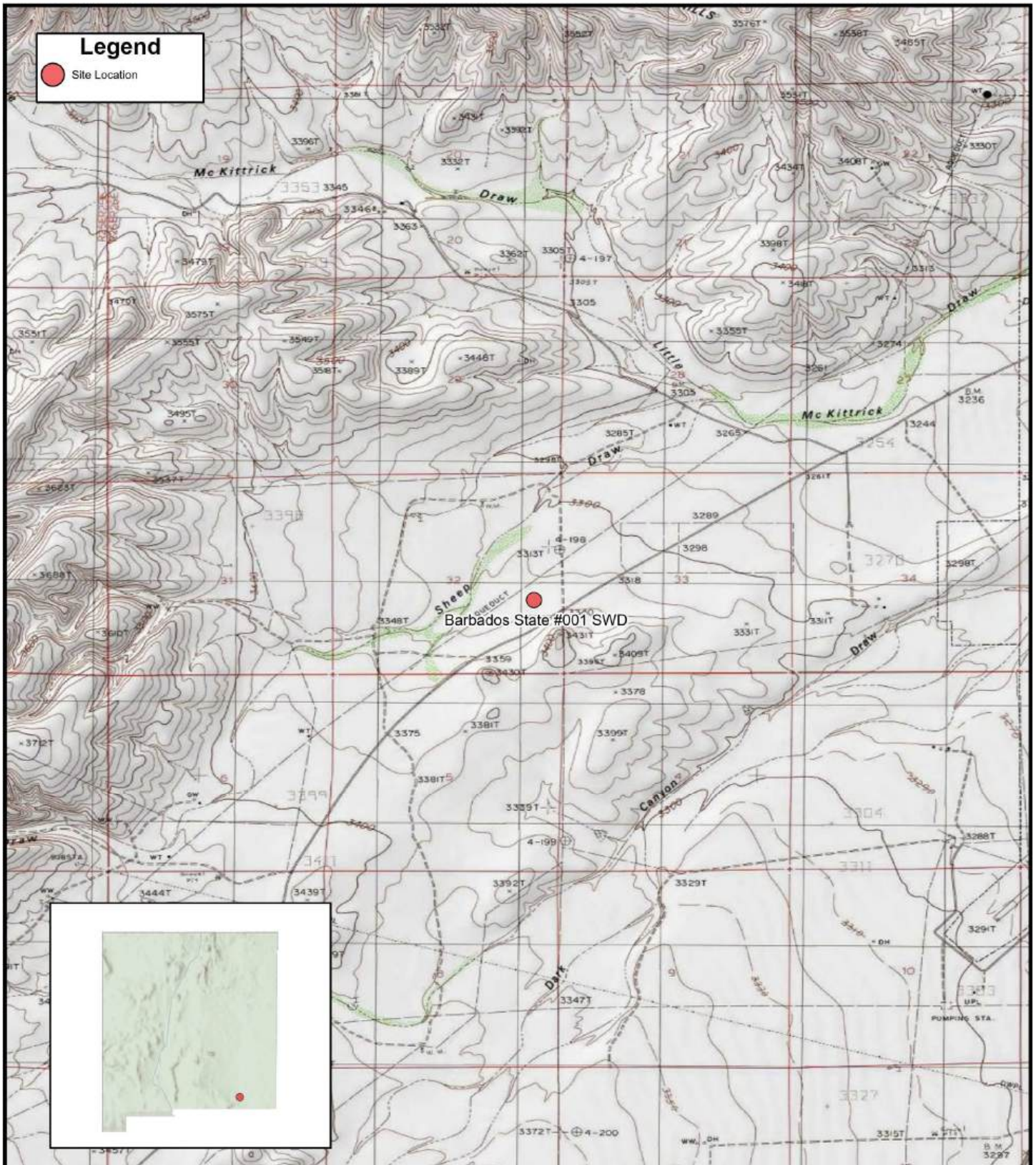


FIGURE 1

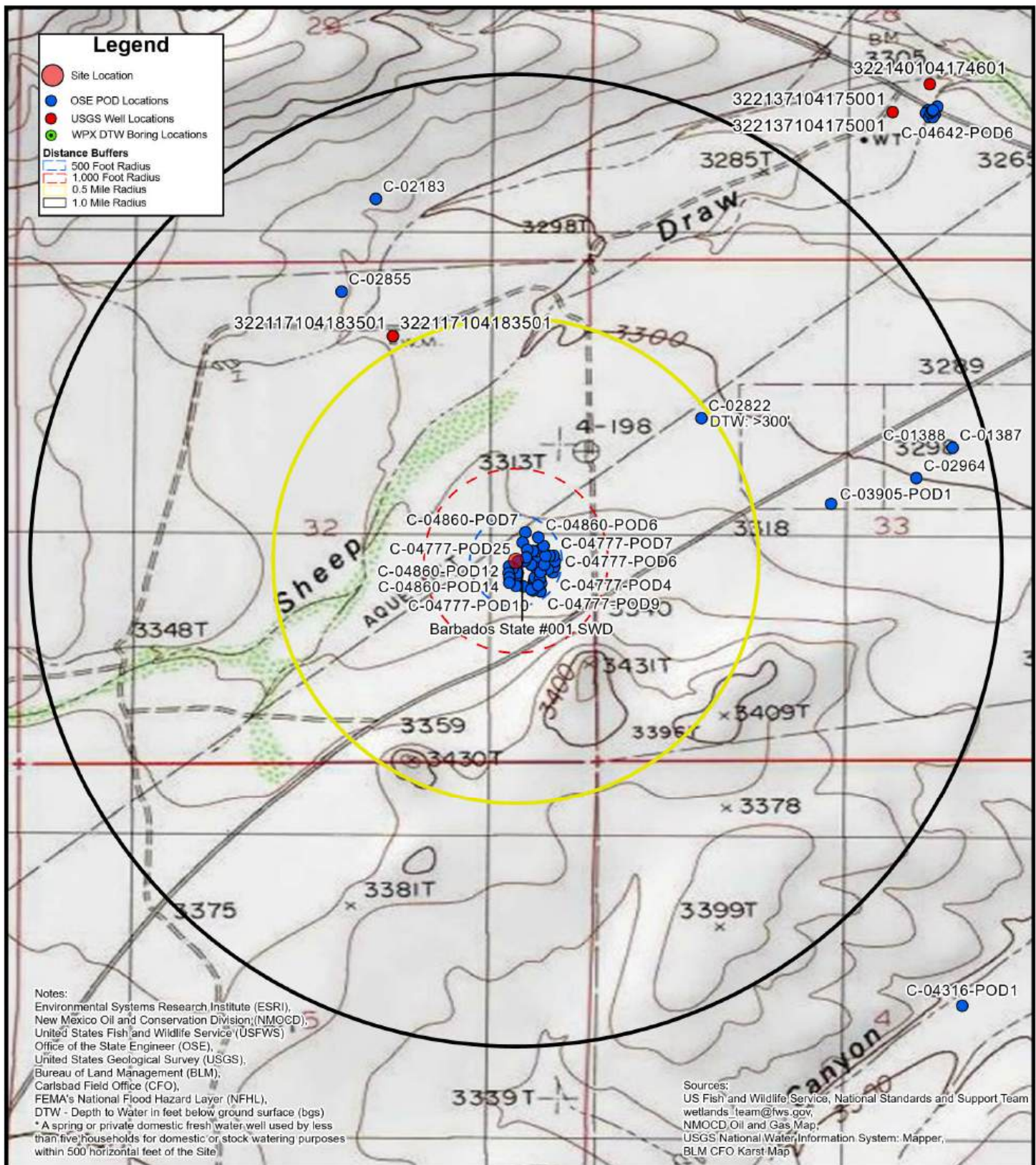
Site Location Map

WPX ENERGY PERMIAN, LLC
Barbados State #001 SWD
Unit 1 Sec 32 T23S R26E
Eddy County, New Mexico

eTECH



0 2,000 4,000 Feet

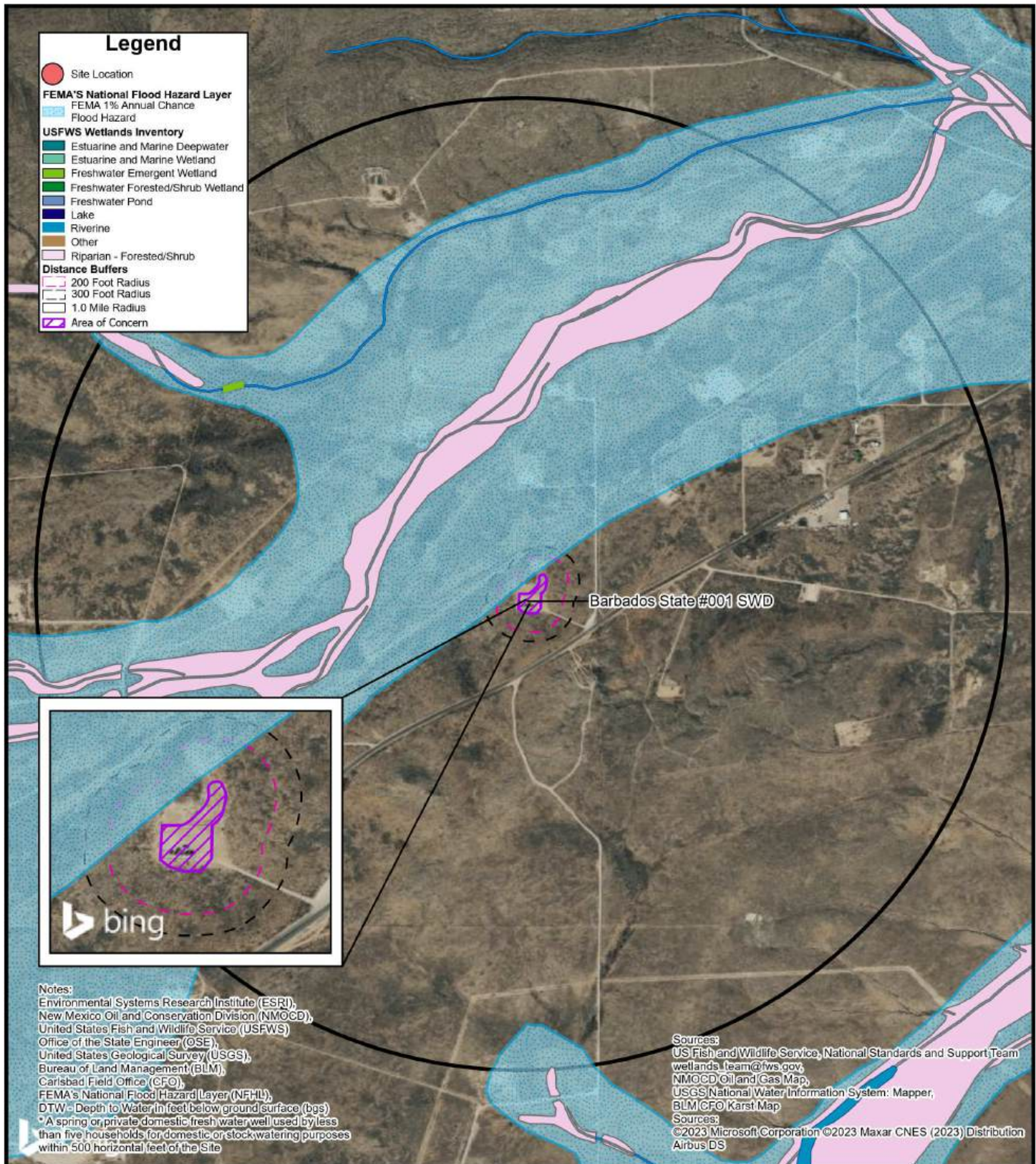


eTECH

FIGURE 1A Site Characterization Map Groundwater

WPX ENERGY PERMIAN, LLC
 Barbados State #001 SWD
 Unit I Sec 32 T23S R26E
 Eddy County, New Mexico



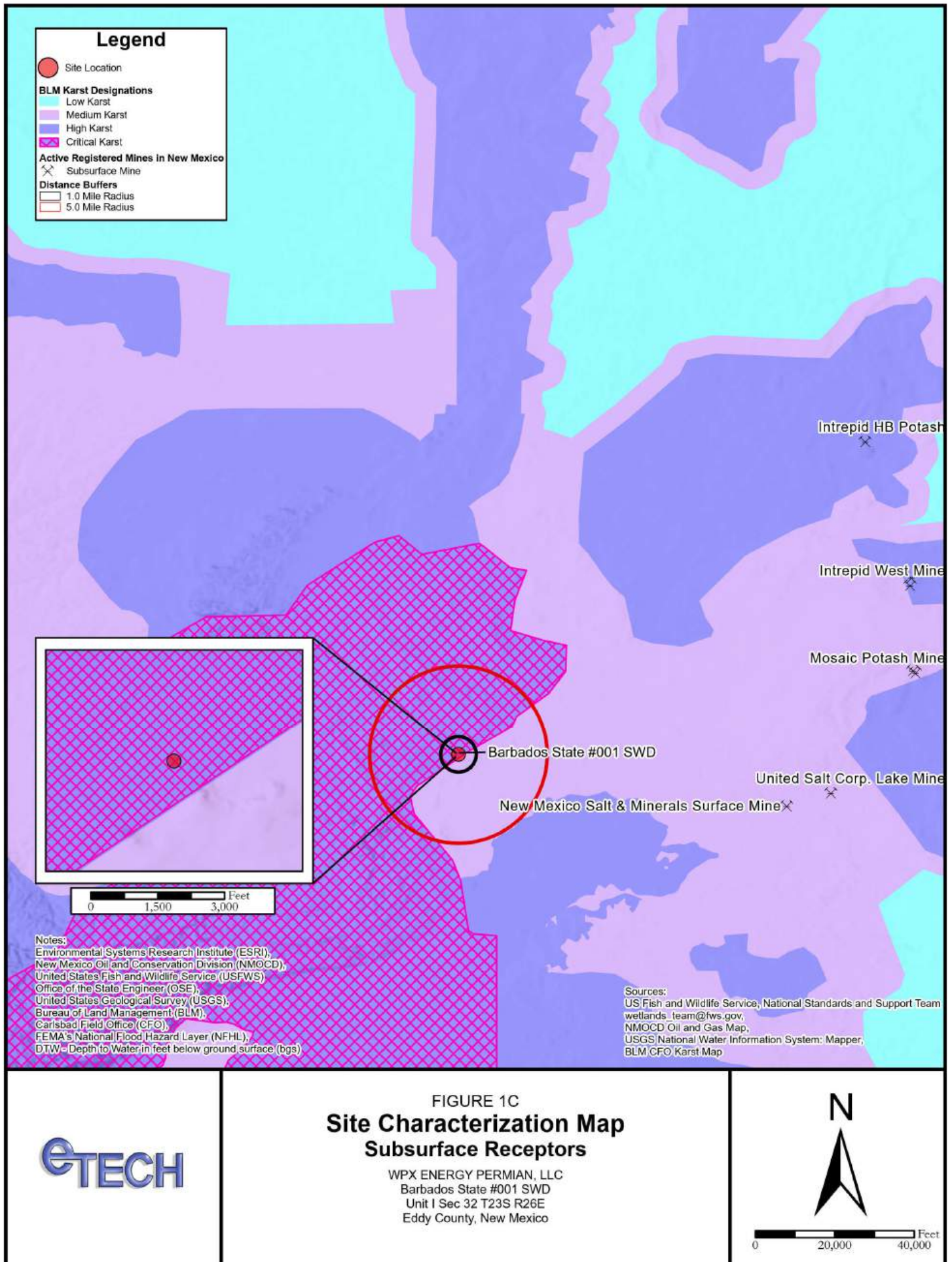


eTECH

**FIGURE 1B
Site Characterization Map
Surficial Receptors**

WPX ENERGY PERMIAN, LLC
 Barbados State #001 SWD
 Unit 1 Sec 32 T23S R26E
 Eddy County, New Mexico





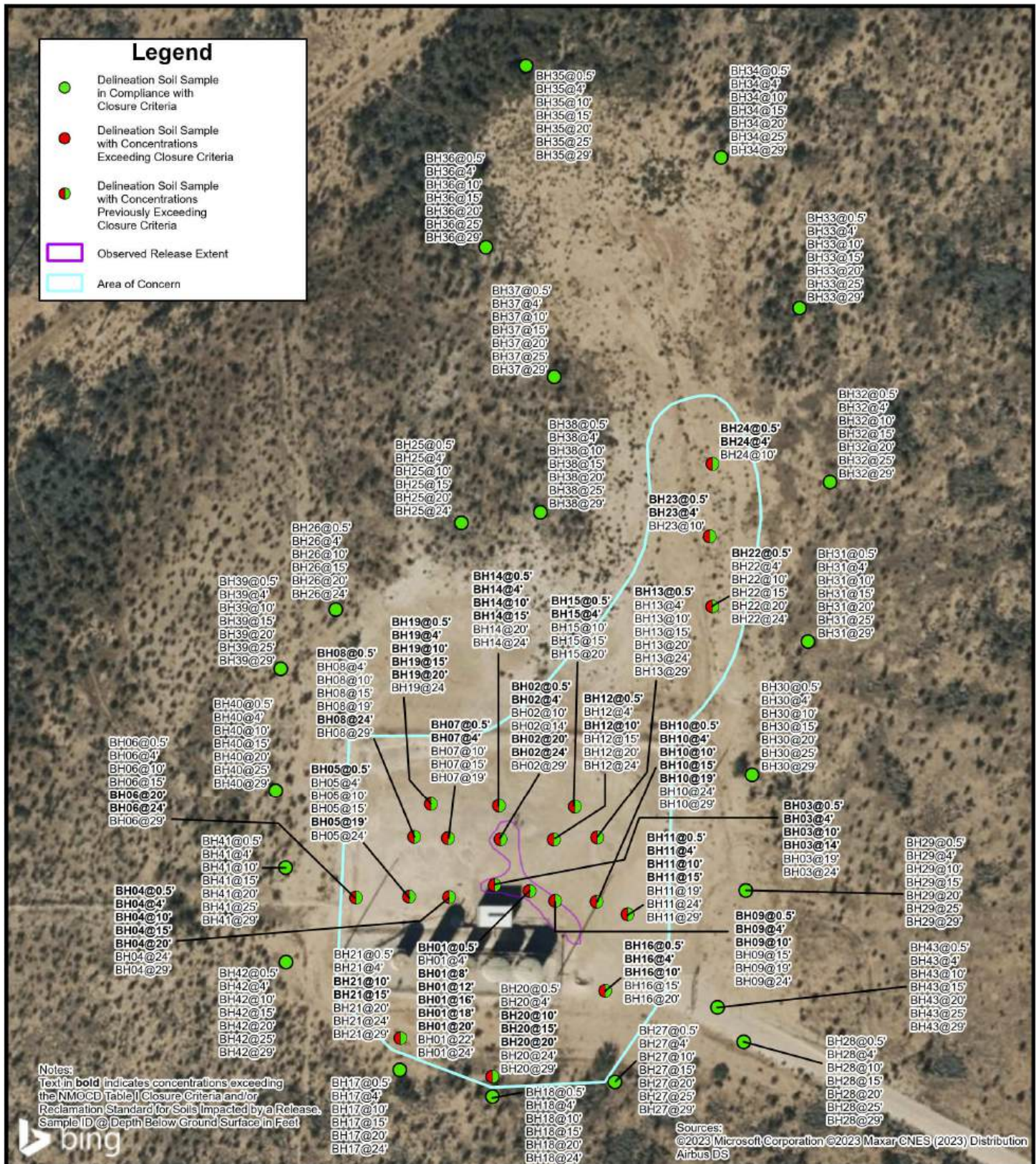


FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Barbados State #001 SWD
Unit I Sec 32 T23S R26E
Eddy County, New Mexico

N



0 55 110 Feet

eTECH

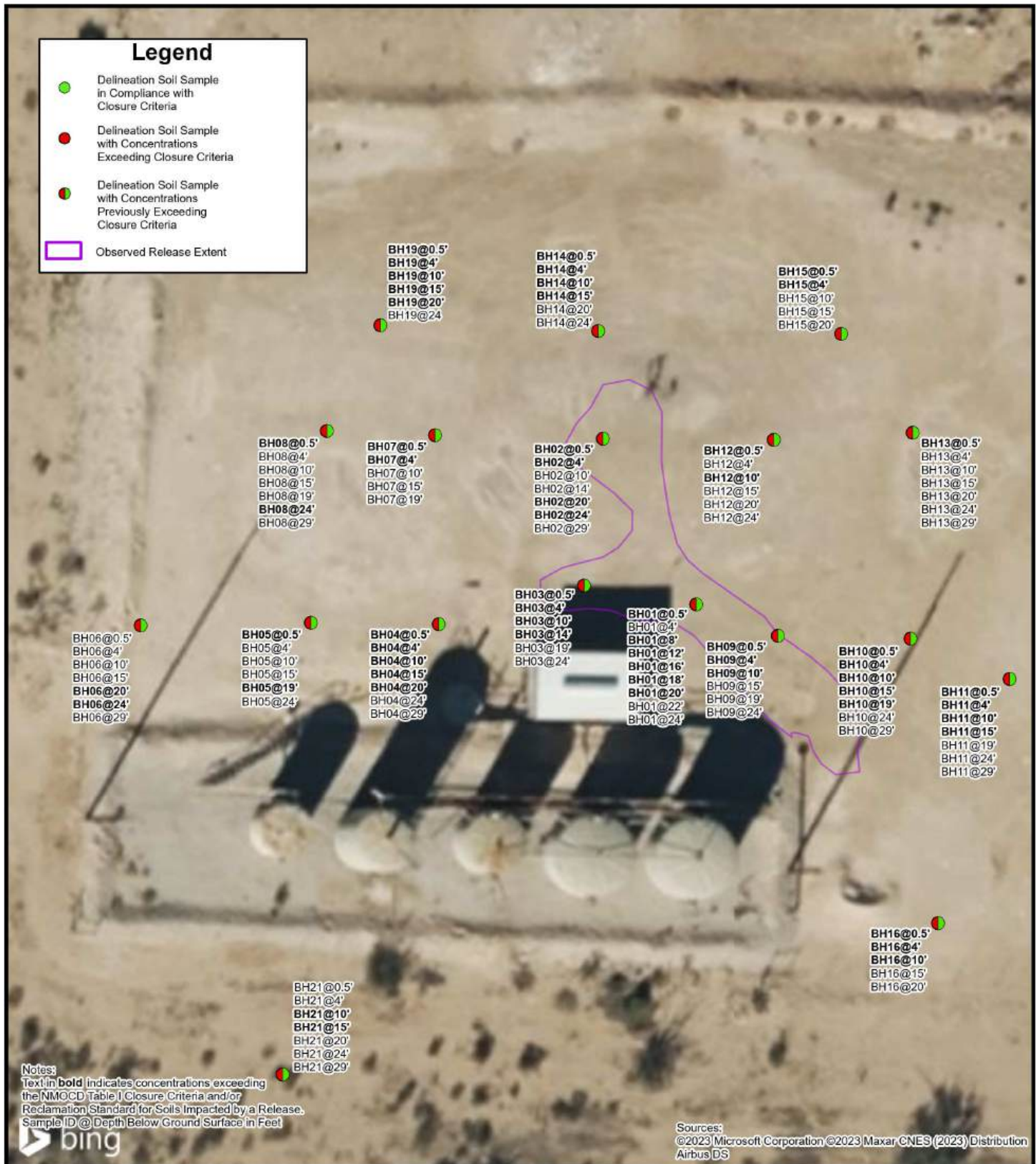


FIGURE 2A

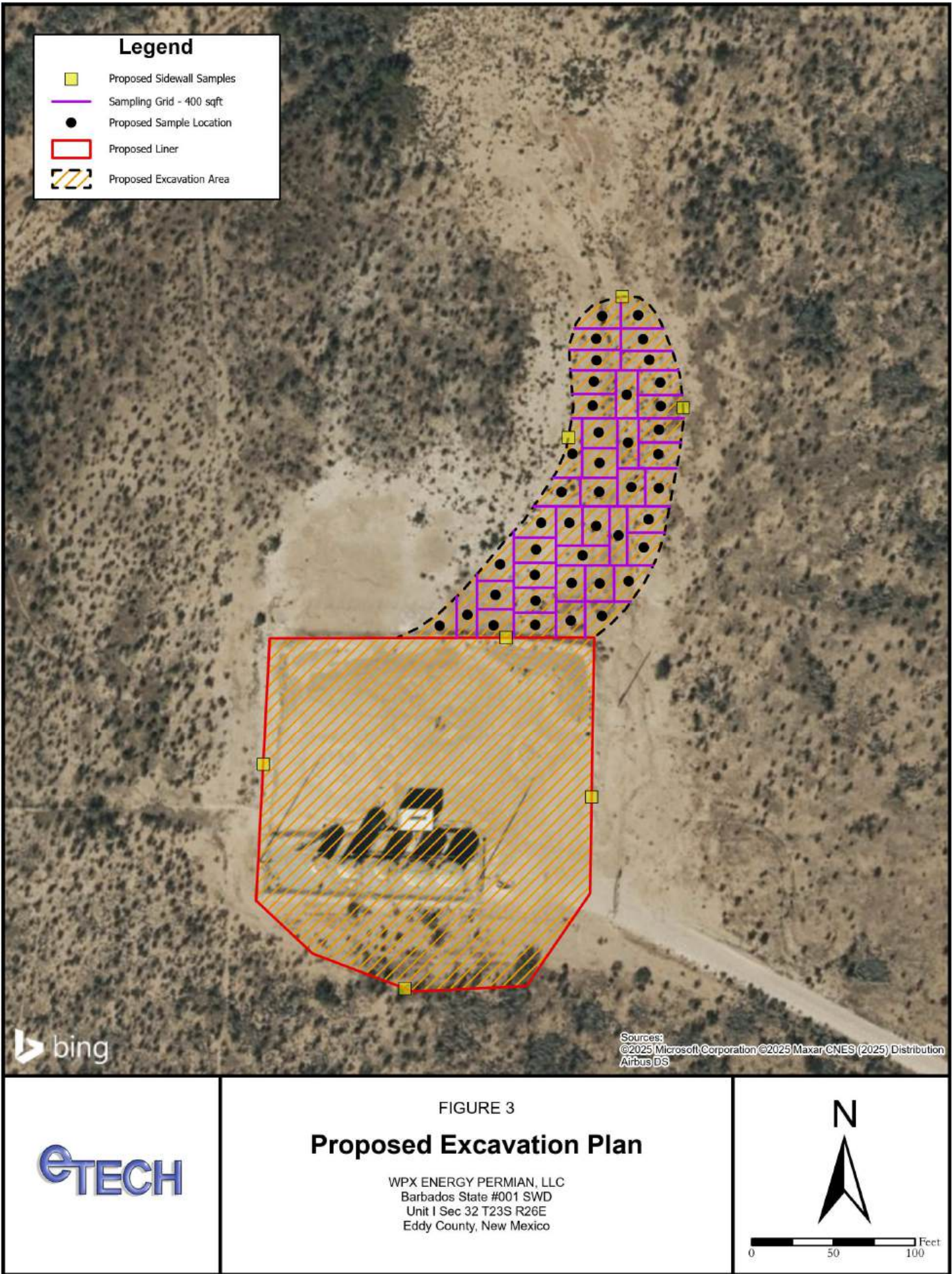
Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Barbados State #001 SWD
Unit I Sec 32 T23S R26E
Eddy County, New Mexico

N



0 15 30 Feet



APPENDIX B

NMSLO Cultural Resources Cover Sheet Exhibit A



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Project Proponent (Applicant):

Project Title/Description:

Cultural Resources Consultant:

Project Location:

County(ies):

Section/Township/Range:

For NMSLO Agency Use Only:

NMSLO Lease Number:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No change in wording should occur in this legal document under any circumstances. The completion of this Cover Sheet does not allow for any ground disturbance before official approval of the proposed lease activity, nor does it guarantee that no further steps will be required for the approval of your application or project.

Form Revised 6.2.22

APPENDIX C

Biological Survey Report

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





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

February 21, 2025

Anna Byers
Senior Geologist
13000 W County Rd 100
Odessa, Texas 79765

**Re: Biological Assessment Report
Barbados State #001 SWD
Devon Energy Production Company
Site Location: Unit I, S32, T22S, R26E
32.3465262, -104.3087692
Eddy County, New Mexico
Species: Scheer's Beehive Cactus, Wright's Waterwillow**

Ms. Byers,

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document survey activities for Scheer's Beehive Cactus (*Coryphantha robustispina* var. *scheeri*) and Wright's Waterwillow (*Justicia wrightii*) at the Barbados State #001 SWD (Site) for submittal to New Mexico State Land Office (NMSLO). The Site is located in Unit Letter I, Section 32, of Township 22 South and Range 26 East in Eddy County, New Mexico. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

On February 11, 2025, NTGE performed a site visit to a reference population of Wright's Waterwillow to confirm that it was conspicuous and detectable, due to the survey needing to take place three (3) weeks prior to the survey season outlined by the Bureau of Land Management (BLM). NTGE personnel confirmed with the NMSLO biologist before conducting survey activities.

Survey

Field survey efforts (presence/absence survey) for Scheer's Beehive Cactus and Wright's Waterwillow took place on February 13, 2025, 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 5,770 square meters. A 200 meter required buffer area for major industrial/commercial developed sites (mineral pits, ponds, flare, CTB, and wellpads) was placed around the proposed area of disturbance. The total area surveyed consisted of 198,539 square meters. Approximately 24,364 square meters within the boundary were excluded due to fences, roadways, and a well pad. Transects were spaced 20 meters apart as per protocol for SSPS potential/suitable habitat. The BLM provided data schema was used to confirm that there were no known occurrences within the survey area. SSPS Potential habitat can be seen on Figure 3, Survey extent and planned transect lines can be seen on Figure 4. Actualized survey tracks can be seen on Figure 5. Habitat images are attached at the end of the report.

Anna Byers
February 21, 2025
Page 2 of 2

Survey Results

The survey resulted in a negative presence (absence) of Scheer's Beehive Cactus and Wright's Waterwillow. No similar species (i.e., *Coryphantha robustispina* ssp, *Justicia* ssp..) were located within the survey area as well. Disturbance factors such as industrial development, roadways, electrical lines, and cattle grazing were evident throughout the survey space. There is 1 ecological site found within the area identified as Reagan-Upton association, 0 to 9 percent slopes. 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). Ecological site information can be seen on Figure 6.

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

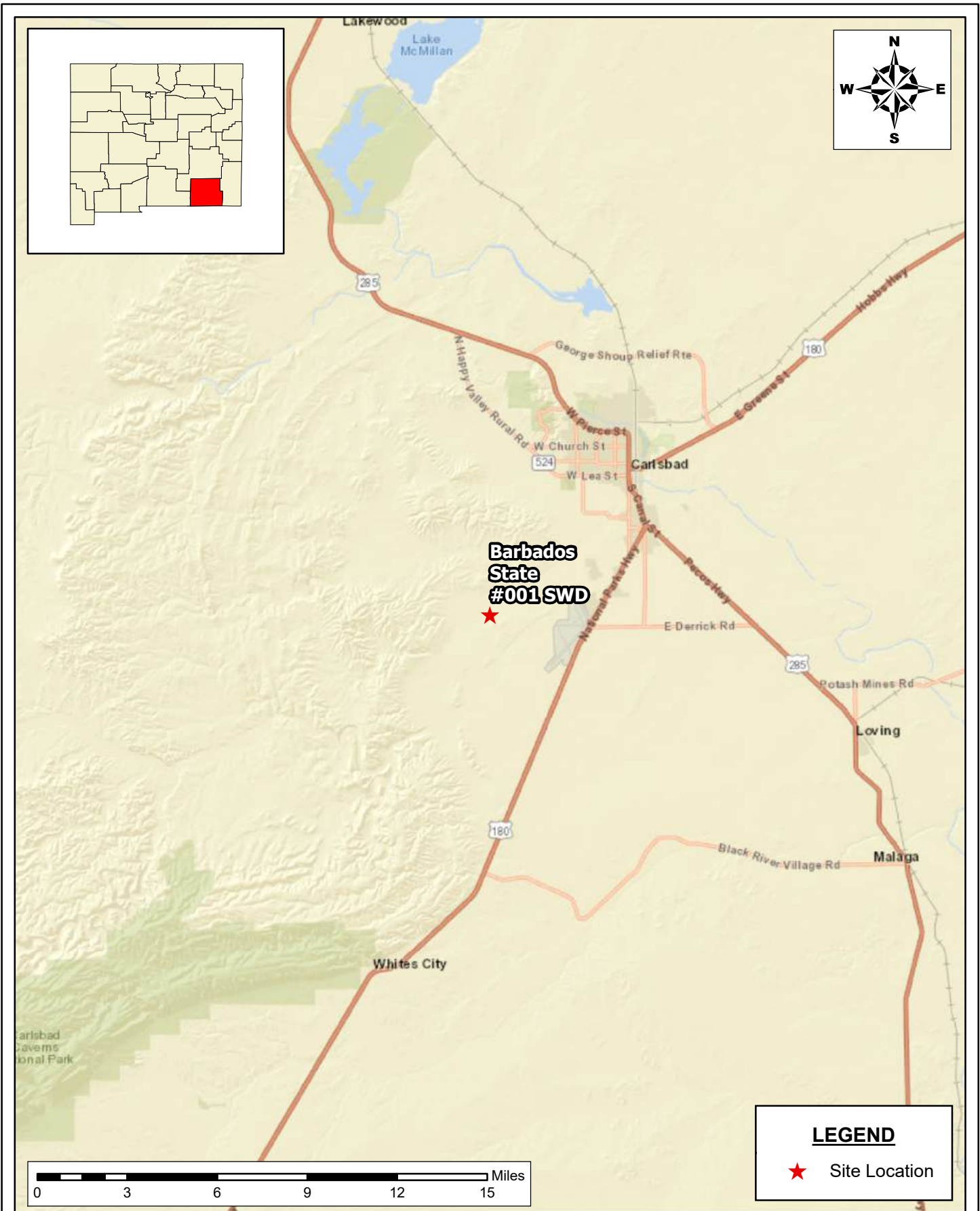
Sincerely,
NTG Environmental

Jillian Smiley
Jr. Project Manager - Botanist
Attachments:

Figures
Photolog

FIGURES

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\IRSC\237676 - Sirius 17 Fed 3 Battery\7- Figures\GIS\Figure_1_SL.mxd



SITE LOCATION MAP
BIOLOGICAL ASSESSMENT REPORT
BARBADOS STATE #001 SWD
DEVON ENERGY PRODUCTION CORPORATION
EDDY COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/21/2025 PROJECT #: 259812



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

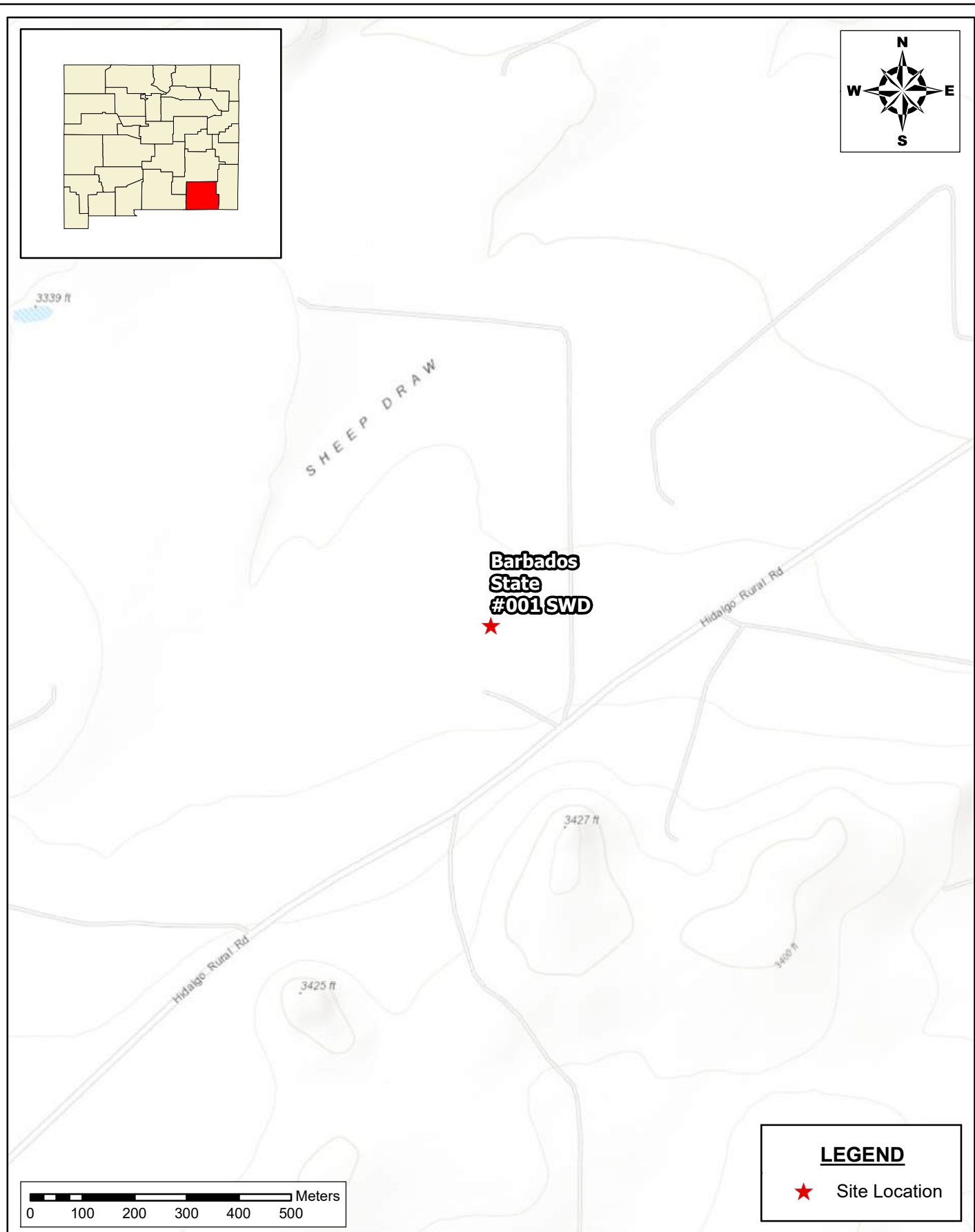
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntgeg\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\IRSC\237676 - Sirius 17 Fed 3 Battery\7- Figures\GIS\Figure_1_SL.mxd



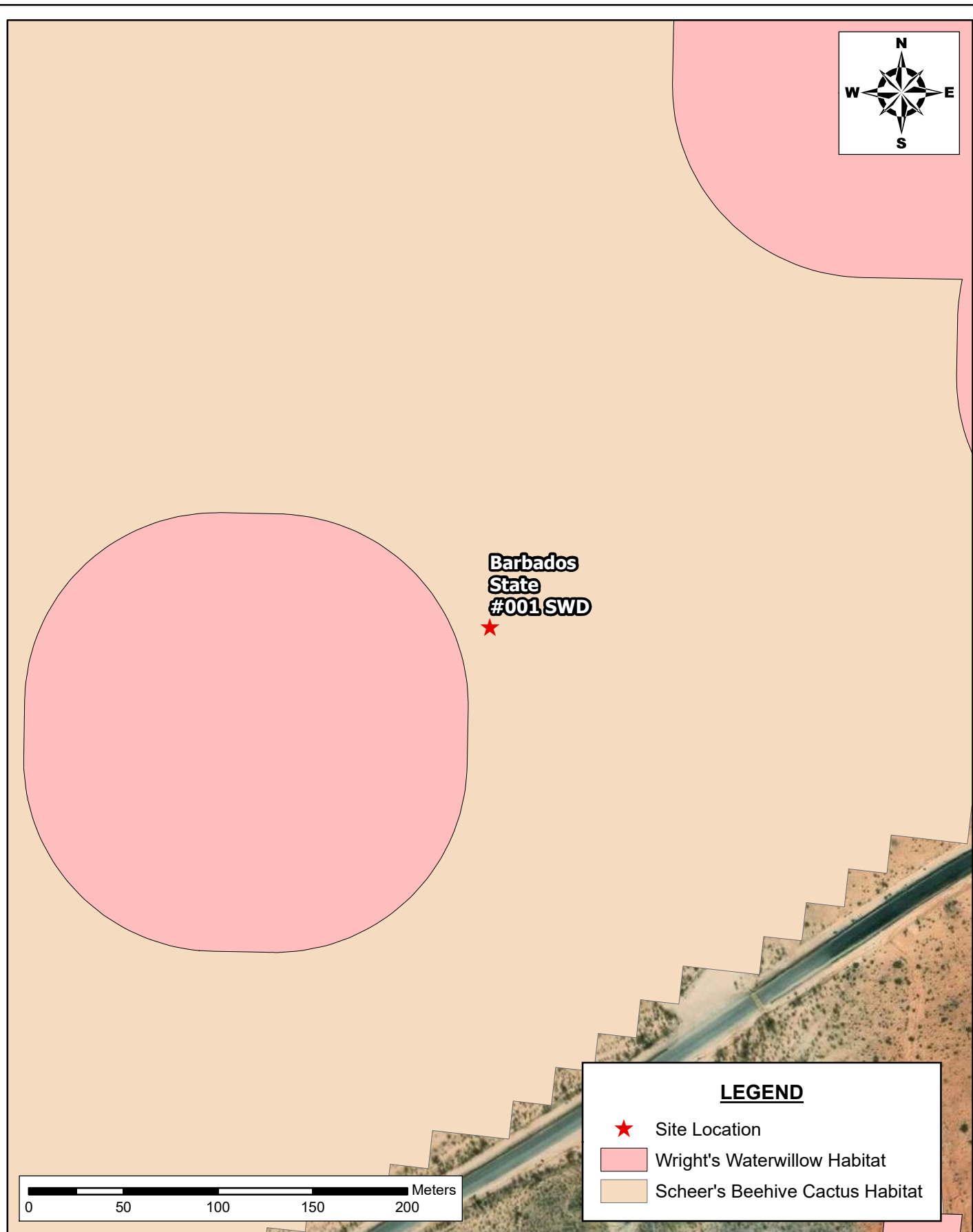
<p align="center">TOPOGRAPHIC MAP BIOLOGICAL ASSESSMENT REPORT BARBADOS STATE #001 SWD DEVON ENERGY PRODUCTION CORPORATION EDDY COUNTY, NEW MEXICO</p>		
SCALE: As Shown	Date: 2/21/2025	PROJECT #: 259812


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

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

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntg\gis\Desktop\Entire Data Schema.mxd



**SSPS POTENTIAL HABITAT MAP
BIOLOGICAL ASSESSMENT REPORT
BARBADOS STATE #001 SWD
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

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntgegis\Desktop\Entire Data Schema.mxd



LEGEND

- Transect Lines
- Survey Extent
- Area of Concern
- Areas Excluded from Survey

SURVEY MAP
BIOLOGICAL ASSESSMENT REPORT
BARBADOS STATE #001 SWD
DEVON ENERGY PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

SCALE: AS SHOWN DATE: 02/21/2025 PROJECT #: 259812



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:

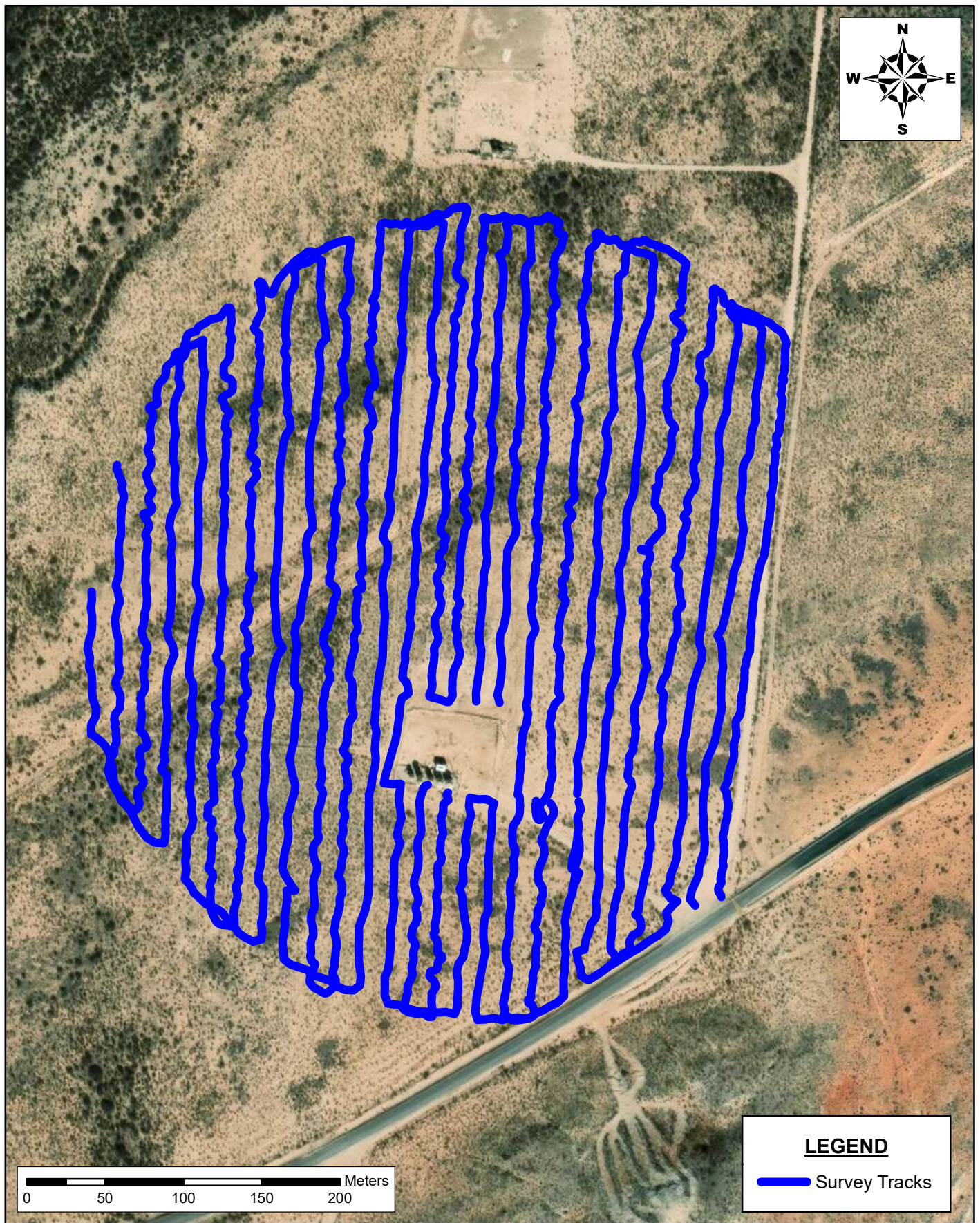
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:

FIGURE 4

SHEET NUMBER:

1 of 1



ACTUALIZED SURVEY TRACKS MAP
BIOLOGICAL ASSESSMENT REPORT
 BARBADOS STATE #001 SWD
 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

DRAWING NUMBER:

FIGURE 5

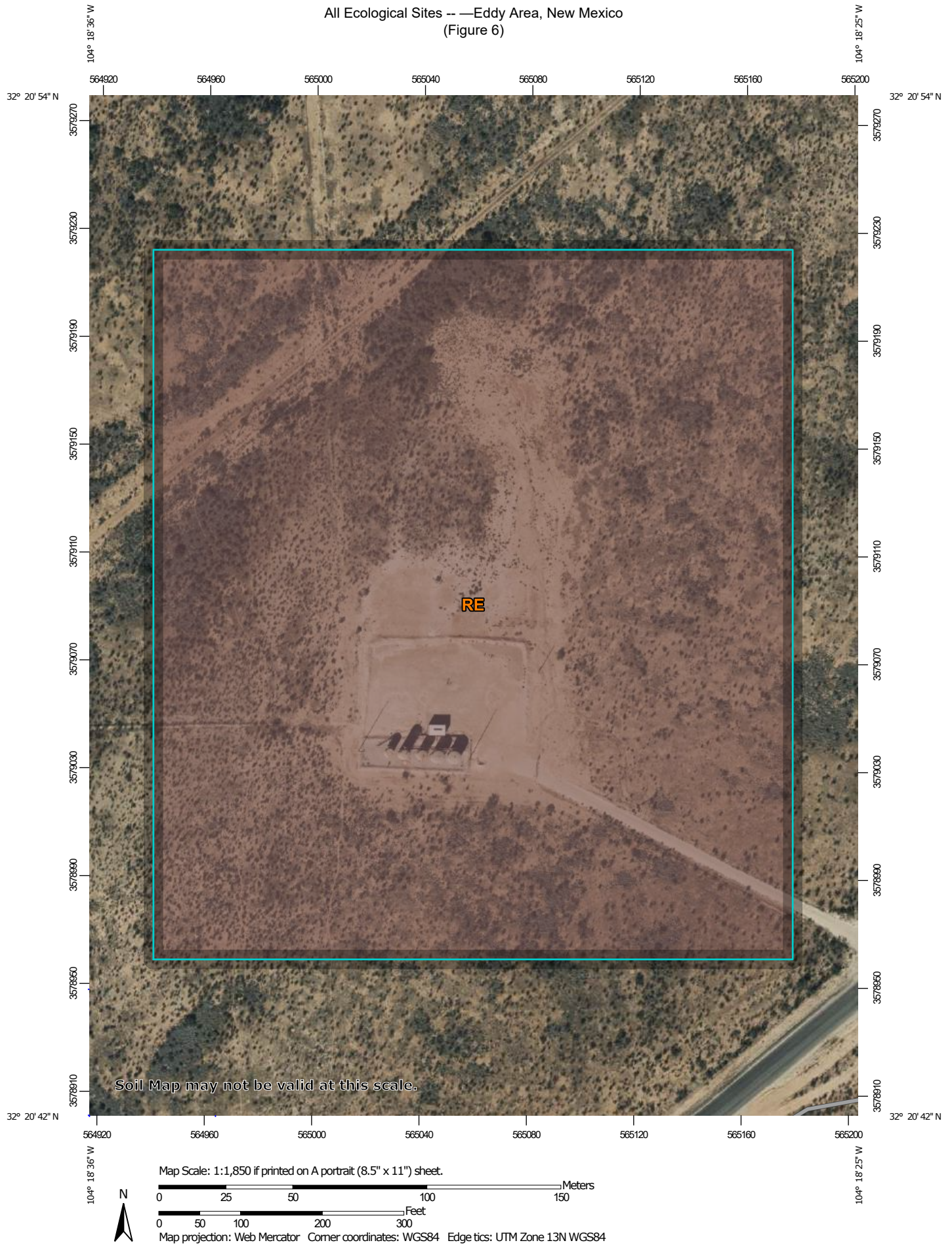
SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntg\gis\Desktop\Entire Data Schema.mxd

SCALE: AS SHOWN DATE: 02/21/2025 PROJECT #: 259812

All Ecological Sites -- Eddy Area, New Mexico
(Figure 6)



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

2/21/2025
Page 1 of 3

All Ecological Sites -- Eddy Area, New Mexico
(Figure 6)



MAP LEGEND

Area of Interest (AOI)



 Area of Interest (AOI)

Soils



Soil Rating Polygons

 R042CY153NM
 Not rated or not available

Soil Rating Lines

 R042CY153NM
 Not rated or not available






Soil Rating Points

 R042CY153NM
 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 1:20,000.

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 20, Sep 3, 2024

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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 —

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	Reagan (70%)	R042CY153NM — Loamy	15.6	100.0%
		Upton (25%)	R042CY159NM — Shallow Loamy		
		Atoka (3%)	R070BC007NM — Loamy		
		Pima (2%)	R070BC017NM — Bottomland		
Totals for Area of Interest				15.6	100.0%

PHOTOGRAPHIC LOG

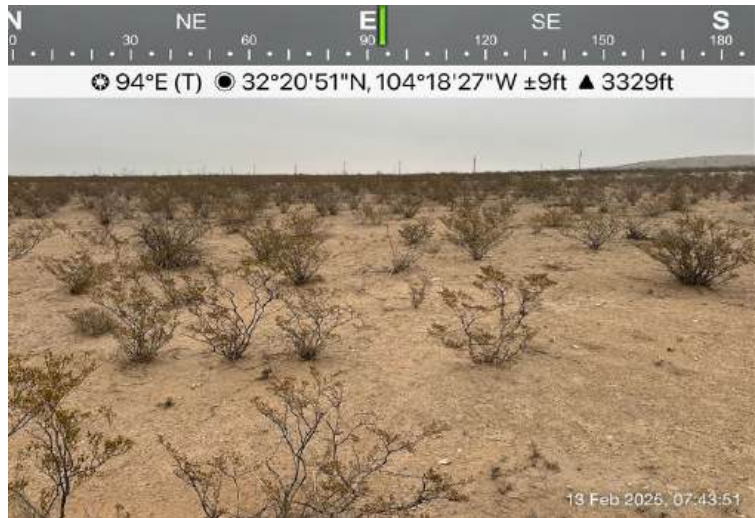
PHOTOGRAPHIC LOG
Devon Energy Production Company
Barbados State #001 SWD

Photograph No. 1

Facility: Barbados State #001 SWD

County: Eddy County, New Mexico

Description:
Area of Survey

**Photograph No. 2**

Facility: Barbados State #001 SWD

County: Eddy County, New Mexico

Description:
Area of Survey

**Photograph No. 3**

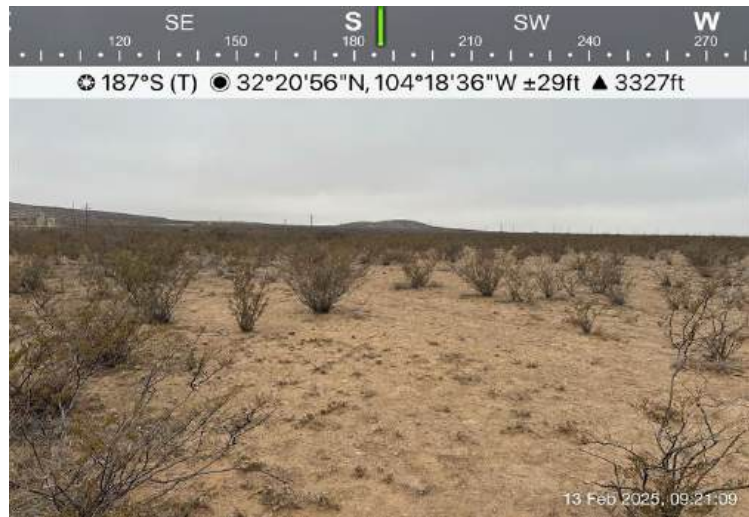
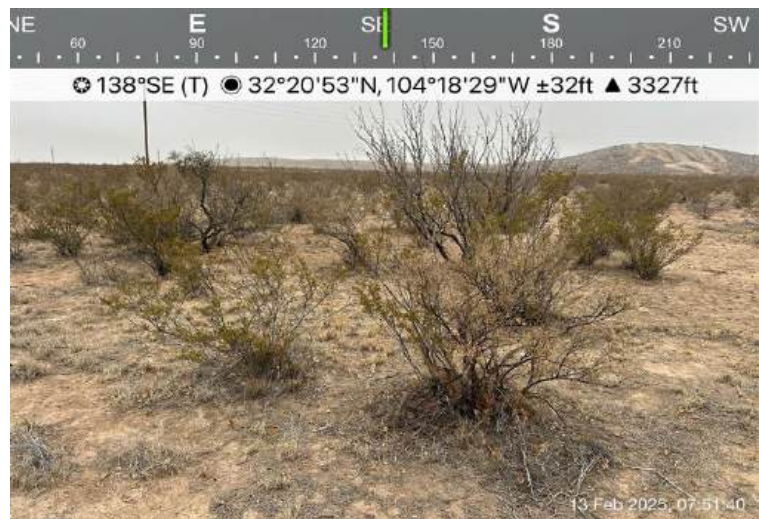
Facility: Barbados State #001 SWD

County: Eddy County, New Mexico

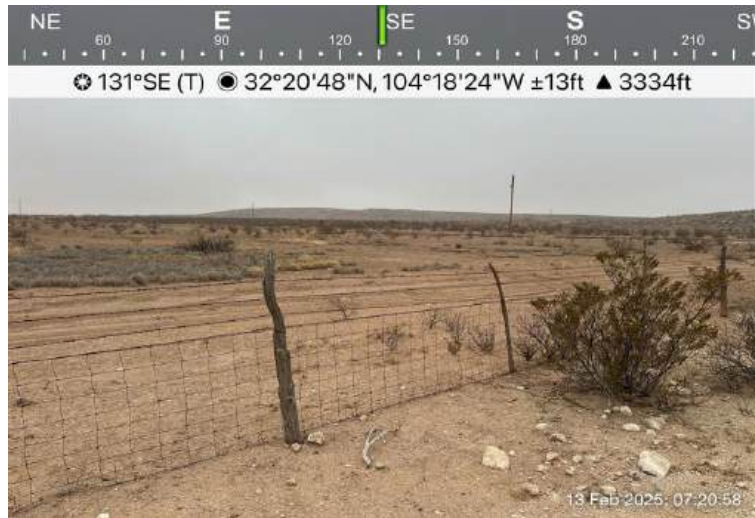
Description:
Area of Survey



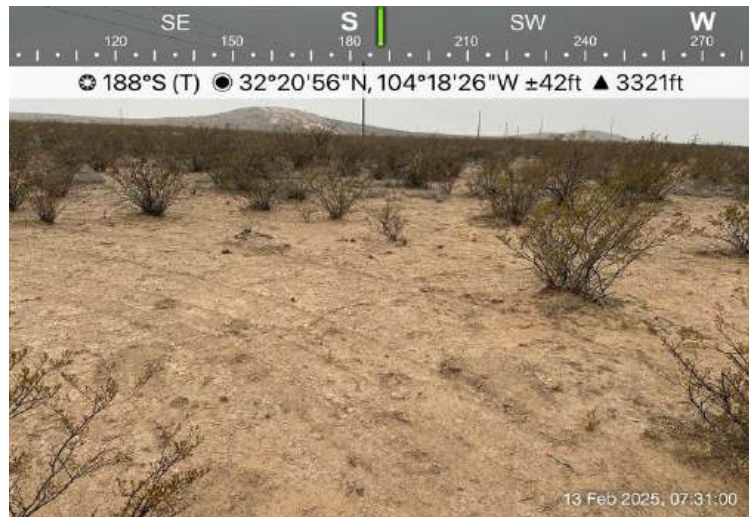
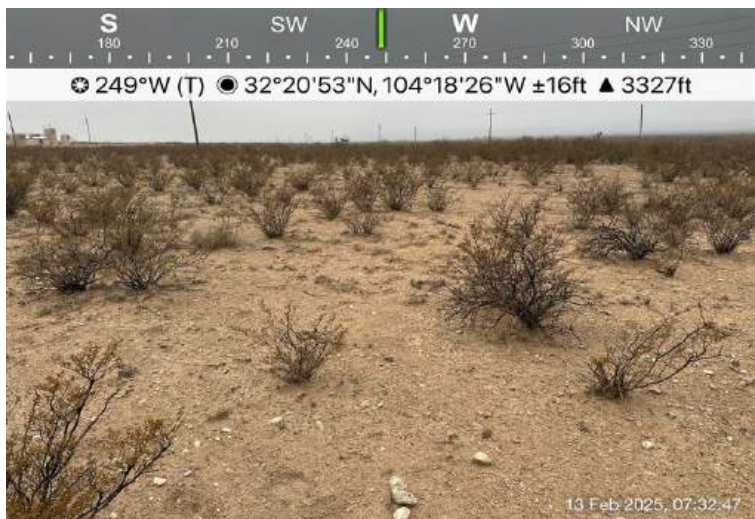
PHOTOGRAPHIC LOG
Devon Energy Production Company
Barbados State #001 SWD

Photograph No. 4**Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 5****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 6****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey

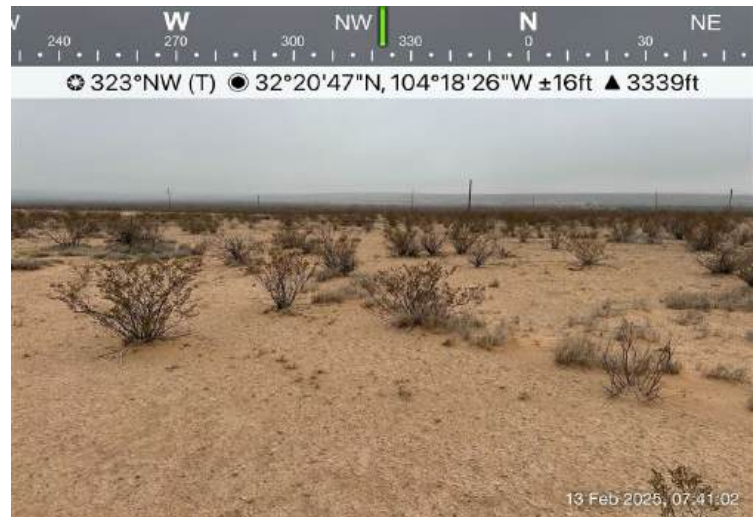
PHOTOGRAPHIC LOG
Devon Energy Production Company
Barbados State #001 SWD

Photograph No. 7**Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 8****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 9****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey

PHOTOGRAPHIC LOG
Devon Energy Production Company
Barbados State #001 SWD

Photograph No. 10**Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 11****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 12****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey

PHOTOGRAPHIC LOG
Devon Energy Production Company
Barbados State #001 SWD

Photograph No. 13**Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 14****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey**Photograph No. 15****Facility:** Barbados State #001 SWD**County:** Eddy County, New Mexico**Description:**
Area of Survey

APPENDIX D

Referenced Well Records



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322117104183501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322117104183501 22S.26E.32.22133

Eddy County, New Mexico
Latitude 32°21'13.35", Longitude 104°18'45.57" NAD83
Land-surface elevation 3,319.00 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1954-02-11			D 62610		3223.64	NGVD29	1		Z	
1954-02-11			D 62611		3225.26	NAVD88	1		Z	
1954-02-11			D 72019	95.36			1		Z	
1955-01-13			D 62610		3223.27	NGVD29	1		Z	
1955-01-13			D 62611		3224.89	NAVD88	1		Z	
1955-01-13			D 72019	95.73			1		Z	
1956-01-06			D 62610		3224.08	NGVD29	1		Z	
1956-01-06			D 62611		3225.70	NAVD88	1		Z	
1956-01-06			D 72019	94.92			1		Z	
1957-01-07			D 62610		3222.50	NGVD29	1		Z	
1957-01-07			D 62611		3224.12	NAVD88	1		Z	
1957-01-07			D 72019	96.50			1		Z	
1958-01-10			D 62610		3221.02	NGVD29	1		Z	
1958-01-10			D 62611		3222.64	NAVD88	1		Z	
1958-01-10			D 72019	97.98			1		Z	
1959-01-26			D 62610		3224.91	NGVD29	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-01-26			D	62611	3226.53	NAVD88	1		Z	
1959-01-26			D	72019	94.09		1		Z	
1960-01-07			D	62610	3224.40	NGVD29	1		Z	
1960-01-07			D	62611	3226.02	NAVD88	1		Z	
1960-01-07			D	72019	94.60		1		Z	
1961-01-10			D	62610	3224.43	NGVD29	1		Z	
1961-01-10			D	62611	3226.05	NAVD88	1		Z	
1961-01-10			D	72019	94.57		1		Z	
1962-01-15			D	62610	3224.17	NGVD29	1		Z	
1962-01-15			D	62611	3225.79	NAVD88	1		Z	
1962-01-15			D	72019	94.83		1		Z	
1963-01-21			D	62610	3223.98	NGVD29	1		Z	
1963-01-21			D	62611	3225.60	NAVD88	1		Z	
1963-01-21			D	72019	95.02		1		Z	
1964-01-17			D	62610	3221.70	NGVD29	P		Z	
1964-01-17			D	62611	3223.32	NAVD88	P		Z	
1964-01-17			D	72019	97.30		P		Z	
1965-01-14			D	62610	3221.06	NGVD29	1		Z	
1965-01-14			D	62611	3222.68	NAVD88	1		Z	
1965-01-14			D	72019	97.94		1		Z	
1966-01-07			D	62610	3210.99	NGVD29	P		Z	
1966-01-07			D	62611	3212.61	NAVD88	P		Z	
1966-01-07			D	72019	108.01		P		Z	
1978-01-06			D	62610	3223.97	NGVD29	1		Z	
1978-01-06			D	62611	3225.59	NAVD88	1		Z	
1978-01-06			D	72019	95.03		1		Z	
1983-01-12			D	62610	3224.54	NGVD29	1		Z	
1983-01-12			D	62611	3226.16	NAVD88	1		Z	
1983-01-12			D	72019	94.46		1		Z	
1987-10-15			D	62610	3224.73	NGVD29	1		Z	
1987-10-15			D	62611	3226.35	NAVD88	1		Z	
1987-10-15			D	72019	94.27		1		Z	
1992-12-11			D	62610	3223.03	NGVD29	1		S	
1992-12-11			D	62611	3224.65	NAVD88	1		S	
1992-12-11			D	72019	95.97		1		S	
1998-01-14			D	62610	3222.59	NGVD29	1		S	
1998-01-14			D	62611	3224.21	NAVD88	1		S	
1998-01-14			D	72019	96.41		1		S	
2003-02-11			D	62610	3216.74	NGVD29	1		S	USGS
2003-02-11			D	62611	3218.36	NAVD88	1		S	USGS
2003-02-11			D	72019	102.26		1		S	USGS
2013-01-09	16:00 UTC		m	62610	3222.60	NGVD29	1		S	USGS
2013-01-09	16:00 UTC		m	62611	3224.22	NAVD88	1		S	USGS
2013-01-09	16:00 UTC		m	72019	96.40		1		S	USGS
2018-01-30	22:19 UTC		m	62610	3224.10	NGVD29	1		S	USGS
2018-01-30	22:19 UTC		m	62611	3225.72	NAVD88	1		S	USGS
2018-01-30	22:19 UTC		m	72019	94.90		1		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-06-26 12:36:37 EDT

0.29 0.24 nadww01

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

466510

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy Hardesty Owner's Well No. _____
Street or Post Office Address 405 Elgin
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2822 and is located in the:

- a. NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 33 Township 22S Range 26E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348

Address 7317 Etcheverry Rd, Carlsbad, NM 88220

Drilling Began 5/19/01 Completed 5/24/01 Type tools Air Rotary Size of hole 4 7/8 in.

Elevation of land surface 67 at well is 3350 ft. Total depth of well 300 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			Dry Hole	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6	Sch 40 Pvc		+1	2	3			

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 10-04-2001

Quad _____ FWL _____ FSL _____


File No. C-2822 Use "Dry Hole" Location No. 22S.26E.33.132

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Dry hole. Left hole open (with cap on surface casing) in case of future effort to deepen well. Bailed well after drilling and found no water.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.



Driller

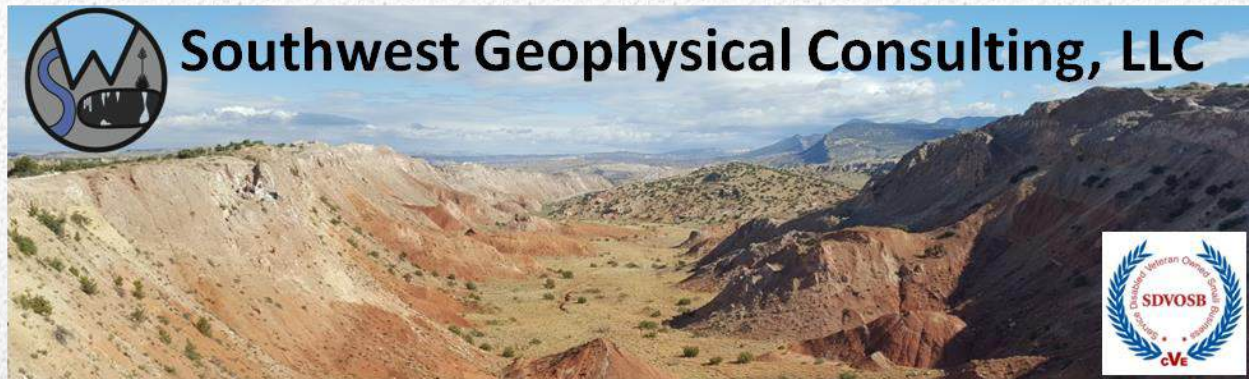
INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

APPENDIX E

Aerial Karst Survey Report

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





Cave and Karst Resource Inventory Report

Barbados State #001 SWD

Eddy County, New Mexico

Prepared for:

eTech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

☒ **Positive – HKOZ remediation process required**

☐ **Negative – MKOZ remediation process may be approved by the Oil Conservation Division**

September 15 2023

ETEC-002-20230719

Copyright 2023 – Southwest Geophysical Consulting, LLC All rights reserved.

Published by:

Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
(505) 585-2550
www.swgeophys.com

Prepared by:

Garrett Jorgensen Olague
Senior Field Geologist
swgeogarrett@gmail.com

Reviewed by:

David D. Decker, PhD, PG, CPG
Principal, Chief Executive Officer
dave@swgeophys.com

Prepared for:

eTech Environmental & Safety Solutions, Inc
13000 West County Road 100
Odessa, TX 79765

Point of Contact:

Anna Byers
(432) 305-6415
anna@etechenv.com

MMXXIII

TABLE OF CONTENTS

FRONT MATTER..... i

TABLE OF CONTENTS.....ii

LIST OF FIGURES.....iii

LIST OF TABLES.....iii

1.0 INTRODUCTION..... 1

 1.1 Goals of this Study..... 1

 1.2 Summary of Findings 1

 1.3 Affected Environment..... 2

 1.4 Limitations of Report..... 3

2.0 LOCATION AND DESCRIPTION OF STUDY AREA..... 4

 2.1 Description of Site..... 4

 2.2 Local Geology 5

 2.3 Description of Survey..... 6

 2.4 Description of Karst Features 8

3.0 RECOMMENDATIONS 10

 3.1 Summary 10

 3.2 Best Practices 10

4.0 REFERENCES 12

5.0 GLOSSARY OF TERMS AND ABBREVIATIONS 13

6.0 ATTESTATION 15

LIST OF FIGURES

Figure 1: Karst occurrence overview 2

Figure 2: Land ownership and PLSS overview..... 4

Figure 3: Geology overview 5

Figure 4: Survey overview 7

LIST OF TABLES

Table 1: Karst Feature Data Table..... 9

1.0 INTRODUCTION

An aerial karst survey was commissioned by eTech Environmental and Safety Solutions, Inc. (hereinafter referred to as "the client"), on July 19, 2023, for the purpose of determining the presence of karst-related surface features within the Barbados State #001 SWD project site (hereinafter termed "BARB").

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, however, that a risk of sinkhole-induced damage to infrastructure does exist even after remediation. The owner/developer must evaluate the risks and attendant costs of not performing a geophysical survey prior to remediation and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting 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 and description of any surface karst-related features within the survey boundary for the BARB project site as provided by the client via e-mail (BARB_PAD_UTM13.shp) on July 19, 2023

1.2 Summary of Findings

One high-likelihood and three medium-likelihood surface karst features are located within the aerial survey area.

The presence of these and nearby surface features indicates that this area is karstified and may contain buried karst features. Caution should be exercised while clearing brush and during any excavation or remediation operations. Employing a Bureau of Land Management approved karst monitor on site during remediation operations should be considered. Please see the section entitled **2.4 Description of Karst Features** and **Table 1** for a full list of the located features.

1.3 Affected Environment

The BARB project 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.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The three primary concerns in these types of terrain are environmental issues, worker safety, 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, 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)^[2] (**Figure 1**).

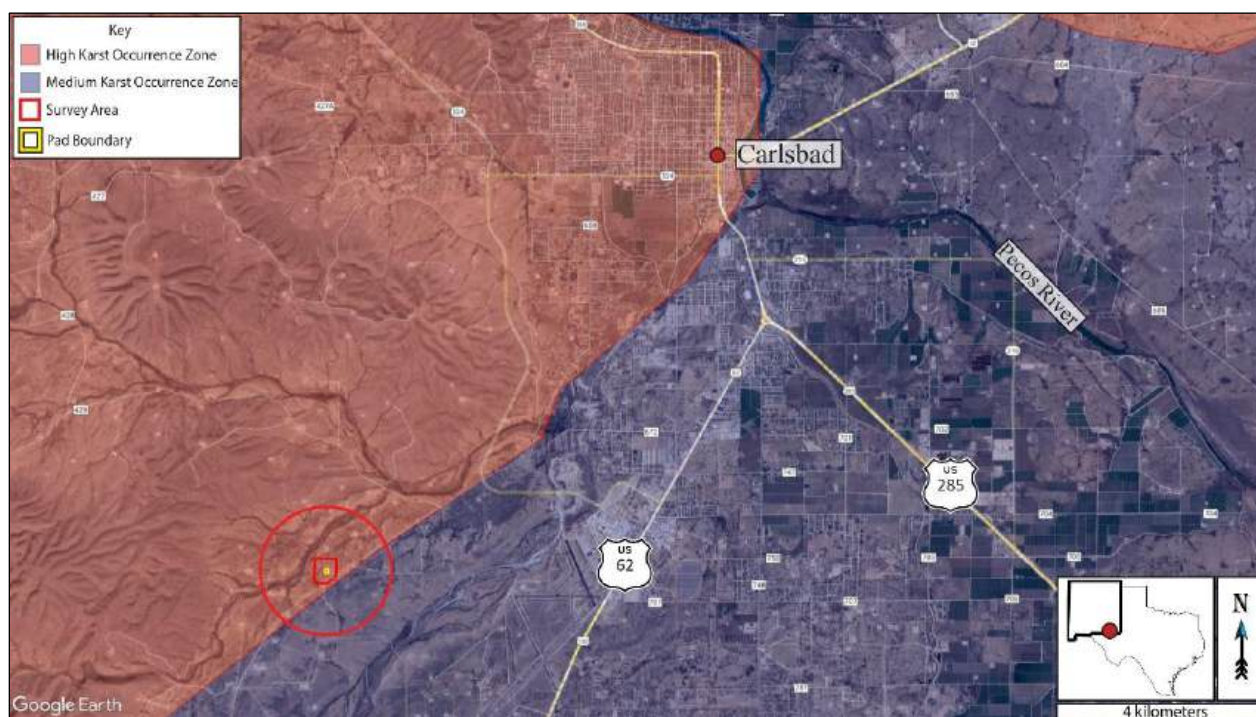


Figure 1: Karst occurrence zone overview. Background image: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

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^[1].

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for 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 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 conducting any remediation activities if these activities will impinge into the recommended buffers.

To the best of our knowledge, information contained in this report is accurate at the date of issue; however, conditions on the site can change in a limited time and, therefore, the information in this report shall not be used beyond three years past the date of imagery collection (see section **2.3 Description of Survey**).

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The BARB project site is located in Eddy County, New Mexico, 11.0 kilometers (6.3 miles) southwest of Carlsbad, New Mexico, north of Hidalgo Rural Road (**Figure 1** and **Figure 2**). The survey area is within section 32 of NM T22S R26E^[3]. The region 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^[4]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[5] 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 project site is located entirely within an HKOZ^[2] (**Figure 1**) and within NMSLO managed land^[6] (**Figure 2**).

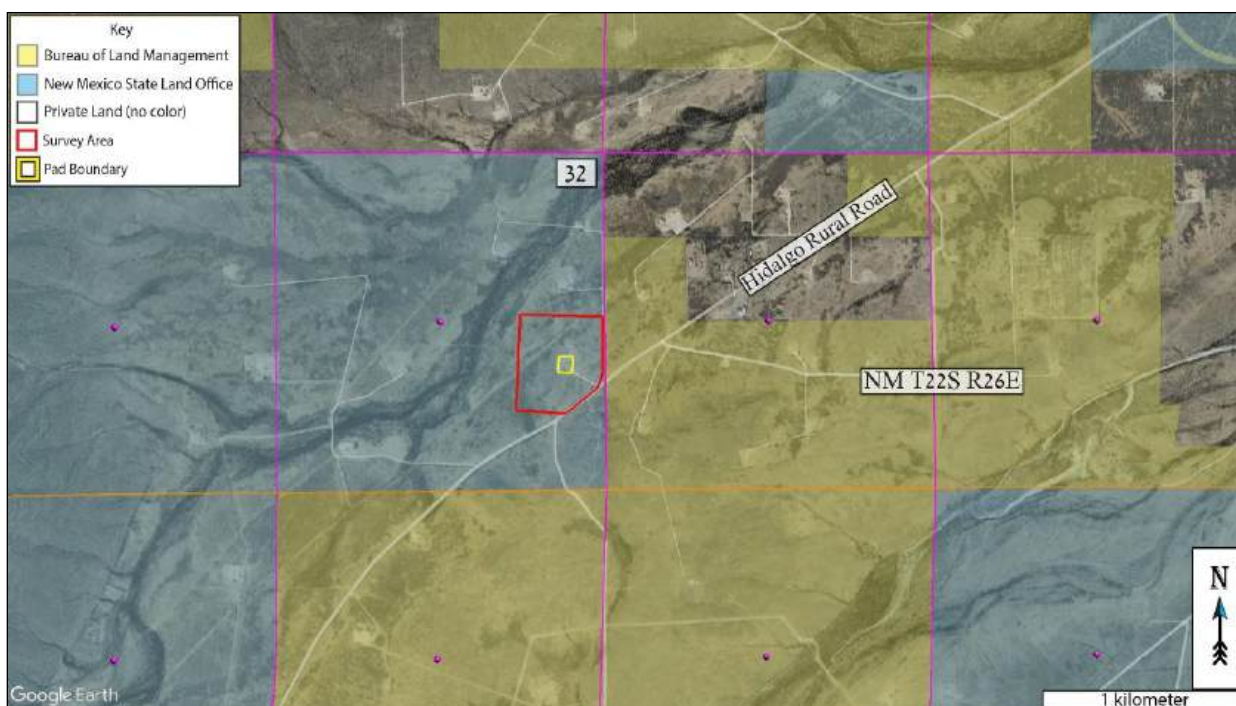


Figure 2: Land ownership^[6] and PLSS^[3] overview. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

2.2 Local Geology

The area surveyed for the BARB project is located at an elevation of 1,017 meters (3,337 feet), \pm 6 meters (19.7 feet), and is underlain by the Permian Artesia Group (Pat) and Permian Salado Formation (Psl). The area is mantled by thin gypsiferous soils and Quaternary aeolian and alluvial sands (Qal)^[7] between 0 and 6 meters in depth (**Figure 3**).

The Artesia Group consists of the Greyburg and Queen Formations (Pqg), the Seven Rivers Formation (Psr), the Yates Formation (Py), and the Tansill Formation (Pt)^[8]. At this location, the Yates and Tansill Formations immediately underly the Quaternary units. The Tansill Formation is mostly carbonate with minor siltstone and anhydrite. The carbonate is susceptible to karst formation. The Yates Formation is dominated by a quartz-rich, frosted-sandstone facies with minor carbonate, anhydrite, and siltstone. The zones of carbonate and anhydrite are susceptible to karst formation^[8]. The Seven Rivers Formation underlies the Yates and Tansill Formations and is a back-reef facies containing interbeds of dolomite and gypsum and occasional sandstone lenses. Both the dolomite and gypsum are subject to karst formation.

The Salado Formation overlies the Artesia Group and contains a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12].



Figure 3: Geology overview. Map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format^[9], and Google Earth. Image date: December 21, 2019. Datum: WGS-84.

This area is karstified and has several karst features within the survey area. Known swallets, sinkholes, and caves exist nearby, but outside the survey area. Caution is recommended during any surface activities including surface inspection, brush clearing, and trenching. The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[7].

2.3 Description of Survey

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^[10].



Figure 4: Survey overview. Background image credit: Google Earth. Image date: December 21, 2019. 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 impact the facility's location. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery^[11]. These features are marked with yellow dots in **Figure 4**. If a feature is subsequently verified in the field prior to publication of the report, the dot will be changed to red triangle if confirmed as a karst feature or deleted if not.

The imagery for the BARB study was collected via aerial survey by Pat Lagodney of SWCA on August 23, 2023. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Garrett Jorgensen Olague of Southwest Geophysical Consulting on September 6, 2023.

Prior to conducting the aerial karst surveys, a surface karst desk study was performed by Southwest Geophysical Consulting. The study was performed using satellite and aerial imagery from Google Earth Pro dated December 21, 2019 (please note features less than one meter in diameter are generally not visible); the Southwest Geophysical Cave and Karst Database dated August 21, 2023; and the Kitchen Cove, NM, 1:24,000 quad, 1985, USGS topographic map. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

2.4 Description of Karst Features

One high-likelihood surface karst feature is located within the aerial survey area (**Figure 4, 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.

Three medium-likelihood surface karst features are located within the aerial survey area (**Figure 4, Table 1**). Medium-likelihood surface karst features are ambiguous in aerial imagery and should be site-checked for verification if they impact the facility's location. 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.

These features and any potential hydrologic pathways into them should be considered during site and remediation planning (Figure 4, see section 3.0 RECOMMENDATIONS for further information).

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Please be aware that the area may contain buried karst features outside of these areas. Caution is advised while clearing brush and during trenching and excavation activities outside of these zones. 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).

Table 1: Karst Feature Data Table

Feature ID	Type	Size (m)	Buffer (m)	Modifier	Easting	Northing
PKF 230901-G01	Swallet	1.3	100	H	564979.473	3579281.924
PKF 230901-G02	Collapse feature	0.6	50	M	565217.647	3579087.167
PKF 230901-G03	Swallet	0.5	50	M	565215.791	3579061.989
PKF 230901-G04	Solution Chimney	0.2	50	M	565171.792	3578952.136

NOTE: Location data provided in WGS-84/UTM 13S. PKF – possible karst feature.

3.0 RECOMMENDATIONS

3.1 Summary

- One high-likelihood and three medium-likelihood surface karst features are located within the aerial survey area (**Figure 4, Table 1**).
- **Consider these features and whether surface flow may impact or has already impacted them during site and remediation planning (Figure 4).**
- The presence of these and other nearby surface karst features indicates that this area is karstified and may contain buried karst features.
- Caution should be exercised while clearing brush and during any excavation, trenching, drilling, or remediation operations.
- Employing a BLM-CFO approved karst monitor during excavation or remediation operations near these features should be considered.

3.2 Best Practices

Because of the ambiguous nature of the medium-likelihood surface karst features found in the survey area, caution should be used while working in or near feature buffer zones. **Please be advised that any remediation operations conducted within a medium-likelihood surface karst feature buffer will require a field verification by a BLM-CFO approved karst vendor to confirm the nature of these features.**

This area may be prone to rapid karst formation in the underlying stratigraphy and warrants careful planning and engineering to mitigate karst-forming processes that could be accelerated by poor planning and considerations. Proper practices following karst guidelines should be implemented during all phases of remediation. Mitigation measures for any karst features revealed during excavation or drilling 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.

Keep in mind that any flow of gypsum-undersaturated waters into a small crack or crevice can rapidly dissolve any underlying gypsum and cause failure of an impoundment or infrastructure within a matter of months to a few years.

Vigilance during remediation is paramount. If voids are encountered during excavation or drilling, 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 vendor 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 for the BLM-CFO should be submitted to:

blm_nm_karst@blm.gov

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

4.0 REFERENCES

- 1 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
- 2 Rybacki, K. (Bureau of Land Management - Carlsbad Field Office, 2020).
- 3 Earthpoint. *Earthpoint Tools for Google Earth*, <<https://www.earthpoint.us/Townships.aspx>> (2022).
- 4 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)* (2010).
- 5 Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology* (Bureau of Land Management, Carlsbad Field Office, 2017).
- 6 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2016).
- 7 Scholle, P. A. *Geologic Map of New Mexico* (2003).
- 8 Johnson, K. S. Evaporite Karst in the United States. *Carbonates and Evaporites* **12**, 2-14 (1997).
- 9 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).
- 10 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).
- 11 Decker, D. D. & Jorgensen, G. L. (ed LLC Southwest Geophysical Consulting) (Private Correspondence, 2020).
- 12 Martinez, J. D., Johnson, K. S. & Neal, J. T. Sinkholes in Evaporite Rocks. *American Scientist* **86**, 38-51 (1998).

5.0 GLOSSARY OF TERMS AND ABBREVIATIONS

BLM-CFO	Bureau of Land Management - Carlsbad Field Office
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.
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.
(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.
LKOZ	Low Karst Occurrence Zone
(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
Pat	Permian Artesia Group
PdI	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
Pr	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
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)

6.0 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 (currently in review). I meet the definition of “qualified professional” for the purposes of ASTM E-1527.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-002-20230719 entitled, “Cave and Karst Resource Inventory Report, Barbados State #001 SWD, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site 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, September 15, 2023.



David D. Decker
PhD, CPG-12123



APPENDIX F

Soil Sampling Logs

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





Sample Name: BH01 Date: 7/26/2023 & 1/22-1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: Trackhoe & HSA

Site Coordinates: 32.3464645, -104.3086861

Hole Diameter: N/A

Total Depth: 24'

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	4,060	0	No	BH01	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	356	0	No	BH01	4	5	SP-SM	(4-19') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace small-coarse subround gravel, no stain, no odor.
Dry	796	0	No	BH01	8	10		@14' Color change to reddish brown with trace clay laminations.
Dry	1,416	0	No	BH01	12	15		(19-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small-large white crystalline gypsum inclusions, (3-8cm), no stain, no odor.
Dry	1,516	0	No	BH01	16			
Dry	2,180	0	No	BH01	18			
Dry	628	0	No	BH01	20	20	CL	
Dry	<112	0	No	BH01	22			
Dry	<112	0	No	BH01	24			
Total Depth								



Sample Name: BH02 Date: 7/26/2023 & 1/22-1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.3465515, -104.3087442

Hole Diameter: 3.75"

Total Depth: 24'

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	3,744	0	No	BH02	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,072	0	No	BH02	4	5	SP-SM	(4-20') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace small-coarse subround gravel, no stain, no odor. @5' No gravel. @9' Increased consolidation. @13' Very large microcrystalline grey-light grey dolomite gravel and/ or boulder (6-20cm) with dissolution features (<1mm). @15' Interbedded yellow and reddish orange clay laminations (1mm).
Dry	<112	0	No	BH02	10	10		
Dry	112	0	No	BH02	14	15		
Dry	284	0	No	BH02	20	20	CL	(20-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small-large white crystalline gypsum inclusions, (3-8cm), no stain, no odor.
Dry	284	0	No	BH02	24	24		
Total Depth								



Sample Name: BH03 Date: 1/22-1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.3464744, -104.3087560

Hole Diameter: 3.75"

Total Depth: 24'

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	3,744	0	No	BH03	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	627	0	No	BH03	4	5	SP-SM	(4-19') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace large subround dolomite gravel, no stain, no odor. @15' Trace yellow-reddish orange sandy clay inclusions.
Dry	627	0	No	BH03	10	10		(19-24') SAND, dry, reddish brown, well graded with silt, fine-coarse grain, abundant small-large pink-white crystalline gypsum, trace clay, no stain, no odor.
Dry	1,072	0	No	BH03	14	15		
Dry	112	0	No	BH03	19	20	SW-SM	
Dry	<112	0	No	BH03	24	24		
Total Depth								



Sample Name: BH04 Date: 1/22-2/05/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA


Site Coordinates: 32.3464541, -104.3088464


Hole Diameter: 3.75"

Total Depth: 29'

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	1,148	0	No	BH04	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	436	0	No	BH04	4	5	SP-SM	(2-11') SAND, dry, light brown, poorly graded with silt, fine grain, trace small subround gravel, no stain, no odor. @10' Very large microcrystalline grey-light grey dolomite gravel and/ or boulder (6-20cm) with dissolution features (<1mm).
Dry	1,872	0	No	BH04	10	10	SW-SM	(11-19') SAND, dry, tan-reddish brown, well graded with silt, fine-coarse grain, some yellow orange mottling, trace grey clay, no stain, no odor.
Dry	1,744	0	No	BH04	15	15		(19-30') CLAY, reddish brown, dry, fine grain, medium plasticity, cohesive, abundant laminations (<1mm), no stain, no odor. @24' White crystalline gypsum inclusions (~6cm)
Dry	252	0	No	BH04	20	20	CL	
Dry	140	0	No	BH04	25	25		
Dry	<112	0	No	BH04	29	29		
Total Depth								

								Sample Name: BH05		Date: 1/22-1/24/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3464548, -104.3089260								Hole Diameter: 3.75"		Total Depth: 24'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	2,512	0	No	BH05	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
Dry	136	0	No	BH05	4	5		(4-5') SAND, dry, tan-light brown, poorly graded with silt, fine grain, trace medium subround dolomite gravel, no stain, no odor.			
								(5-7') DOLOMITE, dry, tan-light grey, fine, microcrystalline, very consolidated, no stain, no odor.			
Dry	112	0	No	BH05	10	10		(7-10') SAND, dry, light brown, well graded with silt, fine-coarse grain, some small-medium subround-subangular gravel, trace clay, no stain, no odor.			
								(10-15') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, some dissolution features (<1mm), no stain, no odor.			
Dry	<112	0	No	BH05	15	15		(15-24') SAND, dry, tan-yellow, well graded with silt, fine-coarse grain, abundant small-large subround-subangular gravel, some clay inclusions, no stain, no odor.			
								@19' Abundant large microcrystalline grey-yellow subround-subangular dolomite gravel.			
Dry	628	0	No	BH05	19	20		@23' Color change to pinkish brown, abundant white-pink crystalline gypsum, no dolomite gravel.			
Dry	164	0	No	BH05	24						
Total Depth											

								Sample Name: BH06		Date: 1/24-2/05/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3464534, -104.3090319								Hole Diameter: 3.75"		Total Depth: 29'	
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	<112	0	No	BH06	0.5	0	CCHE	(0-3') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
Dry	112	0	No	BH06	4	5	SW-SM	(3-5') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
							DOL	(5-7') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, trace dissolution features (<1mm), trace yellow mottling, no stain, no odor.			
Dry	<112	0	No	BH06	10	10	SW-SM	(7-20') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline light grey dolomite gravel, no stain, no odor.			
Dry	<112	0	No	BH06	15	15		@14' Color change to tan, increase in dolomite gravel, trace clay.			
Dry	356	0	No	BH06	20	20		(20-23') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, trace dissolution features (<1mm), trace yellow mottling, no stain, no odor.			
							DOL	(23-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some yellow-grey mottling no stain, no odor.			
Dry	136	0	No	BH06	24	25	CL	@28' Large white crystalline gypsum inclusions (3-8cm)			
Dry	<112	0	No	BH06	29	29					
Total Depth											



Sample Name: BH07

Date: 1/22-1/24/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA


Site Coordinates: 32.3465533, -104.3088487

Hole Diameter: 3.75"

Total Depth: 19'

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	1,320	0	No	BH07	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	480	0	No	BH07	4	5	SW-SM	(2-5') SAND, dry, light brown-brown, well graded with silt, fine-coarse grain, abundant small-medium subround-gravel, no stain, no odor.
Dry	<112	0	No	BH07	10	10	DOL	(5-18') DOLOMITE, dry, light grey, fine, microcrystalline, moderately consolidated, no stain, no odor.
Dry	136	0	No	BH07	15	15		(7-10') SAND, dry, light brown, well graded with silt, fine-coarse grain, some small-medium subround-subangular gravel, trace clay, no stain, no odor.
								@10' Color change to light grey.
								@16' Some reddish brown clay.
Dry	192	0	No	BH07	19	19	SW-SM	(18-19') SAND, dry, tan-reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, some clay, no stain, no odor.
Total Depth								

								Sample Name: BH08		Date: 1/23-2/06/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3465555, -104.3089160								Hole Diameter: 3.75"		Total Depth: 29'	
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	1,872	0	No	BH08	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
Dry	192	0	No	BH08	4	5		(1-14') SAND, dry, light brown-brown, well graded with silt, fine-coarse grain, some small subround gravel, no stain, no odor. @5' Abundant large subround-subangular microcrystalline grey dolomite gravel.			
Dry	112	0	No	BH08	10	10		@10' Gravel decrease in size.			
								(14-16') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, trace crystalline gypsum (<1mm), trace yellow mottling, no stain, no odor.			
Dry	112	0	No	BH08	15	15	CL	(16-21') DOLOMITE, dry, light grey, fine, microcrystalline, moderately consolidated, some interbedded sand and clay, no stain, no odor.			
							DOL				
Dry	164	0	No	BH08	19	20		(21-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small subround-subangular gravel, no stain, no odor.			
								@28' Abundant white crystalline gypsum inclusions (3-6cm).			
Dry	140	0	No	BH08	24	25	CL				
Dry	112	0	No	BH08	29	29					
Total Depth											



								Sample Name: BH09		Date: 1/23-1/24/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3464480, -104.3086353								Hole Diameter: 3.75"		Total Depth: 24'	
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	No	BH09	0.5	0	CCHE	(0-3') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
Moist	1,232	0	No	BH09	4	5	SP-SM	(3-8') SAND, moist, light brown, poorly graded with silt, very fine-fine grain, some tan mottling, some clay, no stain, no odor.			
							SW-SM	(8-14') SAND, dry, light brown, well graded with silt, very fine-fine grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, some clay, no stain, no odor.			
Dry	576	0	No	BH09	10	10		(14-19') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, one large white crystalline gypsum inclusion (4-6 in), some yellow-grey mottling, no stain, no odor.			
Dry	164	0	No	BH09	15	15	CL	(19-24') SILTSTONE, dry, pink-reddish brown, very fine grain, very consolidated, some gypsum inclusions, trace anhydrite, no stain, no odor.			
Dry	220	0	No	BH09	19	19	SM-ST				
Dry	220	0	No	BH09	24						
Total Depth											



Sample Name: BH10 Date: 1/24-2/05/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.3464465, -104.3085528

Hole Diameter: 3.75"

Total Depth: 29'

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	480	0	No	BH10	0.5	0	CCHE	(0-1.5') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	924	0	No	BH10	4	5	SP-SM	(1.5-8') SAND, moist, light brown, poorly graded with silt, very fine-fine grain, some small caliche gravel, no stain, no odor.
Dry	1,744	0	No	BH10	10	10	CL	@6' Trace large subround-subangular gravel (4-6cm). (14-16') CLAY, dry, tan-light brown, fine grain, medium plasticity, cohesive, some sand, trace small-large subround gravel, no stain, no odor.
Dry	680	0	No	BH10	15	15		@11' Color change to reddish brown with tan mottling, no gravel.
Dry	112	0	No	BH10	19	20		@18' Large white crystalline gypsum inclusions, trace large subround microcrystalline grey dolomite gravel.
Dry	<112	0	No	BH10	24	25		@22' No dolomite.
Dry	<112	0	No	BH10	29	29		
Total Depth								



Sample Name: BH11 Date: 1/24-2/07/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.3464253, -104.3084910

Hole Diameter: 3.75"

Total Depth: 29'

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	680	0	No	BH11	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Moist	320	0	No	BH11	4	5	SP-SM	(2-12') SAND, moist, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, trace clay, no stain, no odor.
Moist	480	0	No	BH11	10	10	CL	@3' Dry, increased consolidation. @8' Moist, increased silt and clay, abundant small-large white crystalline gypsum inclusions (1mm-3cm). (12-27') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some yellow-tan mottling, some white crystalline gypsum inclusions, no stain, no odor.
Dry	320	0	No	BH11	15	15		@18' Gypsum inclusions increased in size (3-12cm). (24-27') SILTSTONE, dry, reddish brown, very fine grain, moderately consolidated, some gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH11	19	20		(27-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.
Dry	196	0	No	BH11	24	25		
Dry	<112	0	No	BH11	29	29		
Total Depth								



Sample Name: BH12 Date: 1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA


Site Coordinates: 32.3465508, -104.3086379

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,008	0	No	BH12	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	<112	0	No	BH12	4	5	SP-SM	(2-4') SAND, dry, brown, poorly graded with silt, fine grain, trace clay, no stain, no odor.
							SW-SM	(4-10') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
								@6' Trace reddish brown clay.
Dry	1,292	0	No	BH12	10	10	SP-SM	(10-13') SAND, dry, brown, poorly graded with silt, fine grain, trace clay, no stain, no odor.
							CL	(13-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (4-10cm), no stain, no odor.
Dry	216	0	No	BH12	15	15		@22' very consolidated, partial claystone features.
Dry	<112	0	No	BH12	20	20		
Dry	164	0	No	BH12	24	24		
Total Depth								

								Sample Name: BH13		Date: 1/24-2/06/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3465546, -104.3085514								Hole Diameter: 3.75"		Total Depth: 29'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	2,232	0	No	BH13	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.			
Dry	112	0	No	BH13	4	5		(2-3') SAND, moist, brown, poorly graded with silt, very fine-fine grain, abundant small-large subround gravel, no stain, no odor.			
Dry	112	0	No	BH13	10	10		(3-9') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.			
Dry	<112	0	No	BH13	15	15		(9-18') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, no stain, no odor.			
Dry	<112	0	No	BH13	19	20		@10' Some large white crystalline gypsum inclusions (3-10cm).			
Dry	<112	0	No	BH13	24	25		@11' Increased consolidation.			
Dry	116	0	No	BH13	29	29		(18-22') CALICHE, dry, tan, well graded with silt, fine-coarse grain, well consolidation, trace small subround gravel, no stain, no odor.			
								(22-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.			
Total Depth											



Sample Name: BH14 Date: 1/25/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.3466080, -104.3087471

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,252	0	No	BH14	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	592	0	No	BH14	4	5	SP-SM SW-SM	(2-4') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor. (4-18') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor. @9' Gravel increased in size, some clay.
Dry	396	0	No	BH14	10	10		@14' Color change to tan, some medium subround microcrystalline grey-brown dolomite gravel.
Dry	444	0	No	BH14	15	15		(18-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor. @22' Increased gypsum inclusions.
Dry	112	0	No	BH14	20	20	CL	
Dry	<112	0	No	BH14	24	24		
Total Depth								



Sample Name: BH15 Date: 1/25/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.3466065, -104.3085959

Hole Diameter: 3.75"

Total Depth: 20'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,924	0	No	BH15	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,696	0	No	BH15	4	5	SP-SM	(2-5') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor.
							SW-SM	(5-13') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
Dry	<112	0	No	BH15	10	10		(13-20') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
							CL	@14' Color change to yellow-grey, increase in gypsum inclusions.
								@17' Color change to reddish brown.
Dry	<112	0	No	BH15	15	15		@22' Color change to yellow-grey.
Dry	<112	0	No	BH15	20	20		

Total Depth



								Sample Name: BH16		Date: 1/25/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3466065, -104.3085959								Hole Diameter: 3.75"		Total Depth: 20'			
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	832	0	No	BH16	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.					
Dry	708	0	No	BH16	4	5	SP-SM	(2-10') SAND, dry, brown, poorly graded with silt, fine grain, trace small subround gravel, no stain, no odor. @4' Some tan mottling, trace white-pink crystalline gypsum grains.					
Dry	900	0	No	BH16	10	10	SW-SM	(10-13') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.					
Dry	216	0	No	BH16	15	15	SM-ST	(13-19') SILTSTONE, dry, reddish brown, very fine grain, moderately consolidated, trace small white crystalline gypsum inclusions, no stain, no odor.					
Dry	<112	0	No	BH16	20	20	CL	(19-20') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.					
Total Depth													



Sample Name: BH17 Date: 1/30/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.3461639, -104.3089447

Hole Diameter: 3.75"


Total Depth: 24'

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	<112	0	No	BH17	0.5	0	SP-SM	(0-7') SAND, dry, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, no stain, no odor. @3' Color change to tan-light brown, increased consolidation.
Dry	<112	0	No	BH17	4	5		(7-14') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
							SW-SM	(14-19') SILTSTONE, dry, reddish brown, fine grain, well consolidated, no stain, no odor. @19' Very large subround microcrystalline grey dolomite gravel.
Dry	112	0	No	BH17	10	10		(19-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
Dry	356	0	No	BH17	15	15	SM-ST	
Dry	248	0	No	BH17	20	20	CL	
Dry	<112	0	No	BH17	24	24		
Total Depth								



								Sample Name: BH18		Date: 1/29/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3461191, -104.3087600								Hole Diameter: 3.75"		Total Depth: 24'	
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	<112	0	No	BH18	0.5	0	SP-SM	(0-9') SAND, dry, brown, poorly graded with silt, very fine-fine grain, some small-large subround gravel, trace organics, no stain, no odor.			
Dry	900	0	No	BH18	4	5		@4' Decrease in gravel, increased consolidation, no organics.			
								(9-13') SAND, dry, tan-light reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, abundant white-pink crystalline gypsum grains, moderately consolidated, no stain, no odor.			
Dry	<112	0	No	BH18	10	10	SW-SM	(13-22') SILTSTONE, dry, light reddish brown, fine grain, well consolidated, abundant white crystalline gypsum grains, no stain, no odor.			
Dry	<112	0	No	BH18	15	15	SM-ST	(22-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.			
Dry	112	0	No	BH18	20	20	CL				
Dry	<112	0	No	BH18	24	24					
Total Depth											

								Sample Name: BH19		Date: 1/25/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3466110, -104.3088827								Hole Diameter: 3.75"		Total Depth: 24'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	2,080	0	No	BH19	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.					
Dry	1,124	0	No	BH19	4	5		(4-24') SAND, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.					
								@9' Abundant small-large subround-subangular microcrystalline grey dolomite gravel.					
								@14' Color change to reddish brown, no dolomite gravel, some clay.					
Dry	648	0	No	BH19	10	10		@18' Some small-large subround-subangular microcrystalline grey dolomite gravel.					
Dry	832	0	No	BH19	15	15							
Dry	708	0	No	BH19	20	20							
Dry	316	0	No	BH19	24	24							
Total Depth													



								Sample Name: BH20		Date: 1/29-2/05/2024	
								Site Name: Barbados State #001 SWD			
								Incident Number: nAB1619656595			
								Job Number: 18172			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA	
Site Coordinates: 32.3461526, -104.3087603								Hole Diameter: 3.75"		Total Depth: 29'	
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	<112	0	No	BH20	0.5	0	SP-SM	(0-9') SAND, dry, brown, poorly graded with silt, very fine-fine grain, some small-large subround gravel, trace organics, no stain, no odor.			
Dry	<112	0	No	BH20	4	5		@4' Decrease in gravel, increased consolidation, no organics.			
								(9-13') SAND, dry, tan-light reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, abundant white-pink crystalline gypsum grains, moderately consolidated, no stain, no odor.			
Dry	972	0	No	BH20	10	10	SW-SM	(13-22') SILTSTONE, dry, light reddish brown, fine grain, well consolidated, abundant white crystalline gypsum grains, no stain, no odor.			
Dry	488	0	No	BH20	15	15	SM-ST	(22-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.			
Dry	140	0	No	BH20	20	20					
Dry	<112	0	No	BH20	24	25	CL				
Dry	116	0	No	BH20	29	29					
Total Depth											



Sample Name: BH21 Date: 1/30-2/06/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA


Site Coordinates: 32.3462172, -104.3089436


Hole Diameter: 3.75"


Total Depth: 29'


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	<112	0	No	BH21	0.5	0	SP-SM	(0-3') SAND, dry, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, no stain, no odor.
Dry	<112	0	No	BH21	4	5	SW-SM	(3-8') SAND, dry, tan, well graded with silt, fine-coarse grain, some small-large subround gravel, some brown mottling, no stain, no odor.
Dry	708	0	No	BH21	10	10	SP-SM	(8-17') SAND, moist, reddish brown, poorly graded with silt, fine grain, some clay, no stain, no odor. @10' Abundant large subround-subangular microcrystalline grey dolomite gravel.
Dry	708	0	No	BH21	15	15		(17-27') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH21	20	20	CL	(27-29') CALICHE, dry, tan, well graded with silt, fine-coarse grain, well consolidation, trace small subround gravel, no stain, no odor.
Dry	<112	0	No	BH21	24	25		
Dry	<112	0	No	BH21	29	29	CCHE	
Total Depth								

								Sample Name: BH22		Date: 1/30/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3469438, -104.3083222								Hole Diameter: 3.75"		Total Depth: 24'			
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	4,060	0	No	BH22	0.5	0	SW-SM	(0-14') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.					
Dry	188	0	No	BH22	4	5		@2' No organics.					
								@9' Abundant small-large subround-subangular microcrystalline grey-beige dolomite gravel.					
Dry	112	0	No	BH22	10	10		(14-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.					
								@19' Increased consolidation.					
Dry	<122	0	No	BH22	15	15	CL						
Dry	<112	0	No	BH22	20	20							
Dry	<112	0	No	BH22	24	24							
Total Depth													

								Sample Name: BH23		Date: 1/30/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3470616, -104.3083273								Hole Diameter: 3.75"		Total Depth: 10'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	2,924	0	No	BH23	0.5	0	SW-SM	(0-10') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.					
Dry	1,944	0	No	BH23	4	5		@3' Color change to light brown-reddish brown, increased consolidation.					
								@9' Color change to tan.					
Dry	164	0	No	BH23	10	10							
Total Depth													

								Sample Name: BH24		Date: 1/30/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3471834, -104.3083218								Hole Diameter: 3.75"		Total Depth: 10'			
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	4,764	0	No	BH24	0.5	0	SW-SM	(0-8') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.					
Dry	540	0	No	BH24	4	5		@2' Color change to tan-light brown, gravel increased in size, no organics.					
								@3' Large subround-subangular microcrystalline grey-beige dolomite boulder.					
								(8-10') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor.					
Dry	112	0	No	BH24	10	10	SP-SM						
Total Depth													

								Sample Name: BH25		Date: 1/31/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3470843, -104.3088218								Hole Diameter: 3.75"		Total Depth: 24'			
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	<112	0	No	BH25	0.5	0	SW-SM	(0-24') SAND, dry, brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.					
Dry	164	0	No	BH25	4	5		@3' Color change to tan, gravel increased in size, no organics.					
								@8' Color change to light brown, increased consolidation, some clay.					
								@13' Abundant large subround-subangular microcrystalline grey-beige dolomite gravel.					
								@17' Color change to tan.					
Dry	112	0	No	BH25	10	10							
Dry	<122	0	No	BH25	15	15							
Dry	112	0	No	BH25	20	20							
Dry	<112	0	No	BH25	24	24							
Total Depth													

								Sample Name: BH26		Date: 1/31/2024			
								Site Name: Barbados State #001 SWD					
								Incident Number: nAB1619656595					
								Job Number: 18172					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: HSA			
Site Coordinates: 32.3469385, -104.3090720								Hole Diameter: 3.75"		Total Depth: 24'			
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	<112	0	No	BH26	0.5	0	SW-SM	(0-24') SAND, dry, brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.					
Dry	<112	0	No	BH26	4	5		@2' Large subround boulders.					
								@8' Color change to brown, increased consolidation, some clay, trace small subround gravel, no boulders.					
								@14' Color change to tan, abundant large subround-subangular microcrystalline grey-beige dolomite gravel.					
Dry	<112	0	No	BH26	10	10							
Dry	<122	0	No	BH26	15	15							
Dry	<112	0	No	BH26	20	20							
Dry	<112	0	No	BH26	24	24							
Total Depth													



Sample Name: BH27

Date: 09/10/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346141, -104.308518

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH27	0.5	0	SP-SM	(0-5') SAND, dry, light brown, poorly graded with silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH27	4	5		(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	120	0	No	BH27	10	10		@5' Color change to brown
Dry	<120	0	No	BH27	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH27	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	<120	0	No	BH27	25	25	CL	@25' Color change to tan
Dry	<120	0	No	BH27	29	30		

Total Depth



Sample Name: BH28

Date: 09/10/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346209, -104.308262

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH28	0.5	0	SP-SM	(0-5') SAND, dry, light brown, poorly graded with silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH28	4	5		(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	120	0	No	BH28	10	10		@5' Color change to brown
Dry	<120	0	No	BH28	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH28	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	<120	0	No	BH28	25	25	CL	@25' Color change to tan
Dry	<120	0	No	BH28	29	30		

Total Depth



Sample Name: BH29 Date: 09/12/2024
 Site Name: Barbados State #001
 Incident Number: nAB1619656595
 Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH29	0.5	0	SW-SM	(0-25') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small- large subangular to subrounded gravel (0.5-17cm), no stain, no odor.
Dry	<120	0	No	BH29	4	5		@4' Color change to tan
Dry	<120	0.0	No	BH29	10	10		@15' Color change to light brown, decrease of large gravel, abundant small subrounded gravel (1-3cm)
Dry	<120	0	No	BH29	15	15		@18' Increase of silt, color change to reddish brown
Dry	<120	0	No	BH29	20	20		@22.5 Color change to tan
Dry	164	0	No	BH29	25	25	CL	(25-30') CLAY, dry, reddish brown, medium plasticity, cohesive some gypsum, no stain, no odor.
Dry	120	0	No	BH29	29	30		@28.5' Abundant gypsum

Total Depth



Sample Name: BH30 Date: 09/12/2024
 Site Name: Barbados State #001
 Incident Number: nAB1619656595
 Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH30	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH30	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH30	10	10		@5' Color change to brown
Dry	<120	0	No	BH30	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH30	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	164	0	No	BH30	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH30	29	29		
Dry	120	0	No	BH30	30	30		

Total Depth



Sample Name: BH31

Date: 09/10/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH31	0.5	0	SP-SM	(0-5') SAND, dry, light brown, poorly graded with silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH31	4	5		(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	120	0	No	BH31	10	10		@5' Color change to brown
Dry	<120	0	No	BH31	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH31	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	<120	0	No	BH31	25	25	CL	@25' Color change to tan
Dry	<120	0	No	BH31	29	30		

Total Depth



Sample Name: BH32 Date: 09/12/2024
 Site Name: Barbados State #001
 Incident Number: nAB1619656595
 Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH32	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH32	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH32	10	10		@5' Color change to brown
Dry	<120	0	No	BH32	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH32	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	164	0	No	BH32	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH32	29	29		
Dry	120	0	No	BH32	30	30		

Total Depth



Sample Name: BH33

Date: 09/10/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH33	0.5	0	SP-SM	(0-5') SAND, dry, light brown, poorly graded with silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH33	4	5		(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	120	0	No	BH33	10	10		@5' Color change to brown
Dry	<120	0	No	BH33	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH33	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	<120	0	No	BH33	25	25	CL	@25' Color change to tan
Dry	<120	0	No	BH33	29	30		

Total Depth



Sample Name: BH34

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH34	0.5	0	SW-SM	(0-25') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small- large subangular to subrounded gravel (0.5-17cm), no stain, no odor.
Dry	<120	0	No	BH34	4	5		@4' Color change to tan
Dry	<120	0.0	No	BH34	10	10		@15' Color change to light brown, decrease of large gravel, abundant small subrounded gravel (1-3cm)
Dry	<120	0	No	BH34	15	15		@18' Increase of silt, color change to reddish brown
Dry	<120	0	No	BH34	20	20		@22.5 Color change to tan
Dry	164	0	No	BH34	25	25		(25-30') CLAY, dry, reddish brown, medium plasticity, cohesive some gypsum, no stain, no odor.
Dry	120	0	No	BH34	29	30	CL	@28.5' Abundant gypsum

Total Depth



Sample Name: BH35 Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH35	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH35	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH35	10	10		@5' Color change to brown
Dry	<120	0	No	BH35	15	15		@11.5' Color change to tan
Dry	164	0	No	BH35	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	120	0	No	BH35	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH35	29	30		

Total Depth



Sample Name: BH36

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH36	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH36	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH36	10	10		@5' Color change to brown
Dry	<120	0	No	BH36	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH36	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	164	0	No	BH36	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH36	29	29		
Dry	120	0	No	BH36	30	30		

Total Depth



Sample Name: BH37 Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH37	0.5	0	SW-SM	(0-25') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small- large subangular to subrounded gravel (0.5-17cm), no stain, no odor.
Dry	<120	0	No	BH37	4	5		@4' Color change to tan
Dry	<120	0.0	No	BH37	10	10		@15' Color change to light brown, decrease of large gravel, abundant small subrounded gravel (1-3cm)
Dry	<120	0	No	BH37	15	15		@18' Increase of silt, color change to reddish brown
Dry	<120	0	No	BH37	20	20		@22.5 Color change to tan
Dry	164	0	No	BH37	25	25	CL	(25-30') CLAY, dry, reddish brown, medium plasticity, cohesive some gypsum, no stain, no odor.
Dry	120	0	No	BH37	29	30		@28.5' Abundant gypsum

Total Depth



Sample Name: BH38 Date: 09/12/2024
 Site Name: Barbados State #001
 Incident Number: nAB1619656595
 Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH38	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH38	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH38	10	10		@5' Color change to brown
Dry	<120	0	No	BH38	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH38	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	164	0	No	BH38	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH38	29	29		
Dry	120	0	No	BH38	30	30		

Total Depth



Sample Name: BH39

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH39	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH39	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH39	10	10		@5' Color change to brown
Dry	<120	0	No	BH39	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH39	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	164	0	No	BH39	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH39	29	29		
Dry	120	0	No	BH39	30	30		

Total Depth



Sample Name: BH40

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH40	0.5	0	SW-SM	(0-25') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small- large subangular to subrounded gravel (0.5-17cm), no stain, no odor.
Dry	<120	0	No	BH40	4	5		@4' Color change to tan
Dry	<120	0.0	No	BH40	10	10		@15' Color change to light brown, decrease of large gravel, abundant small subrounded gravel (1-3cm)
Dry	<120	0	No	BH40	15	15		@18' Increase of silt, color change to reddish brown
Dry	<120	0	No	BH40	20	20		@22.5 Color change to tan
Dry	164	0	No	BH40	25	25		(25-30') CLAY, dry, reddish brown, medium plasticity, cohesive some gypsum, no stain, no odor.
Dry	120	0	No	BH40	29	30	CL	@28.5' Abundant gypsum

Total Depth



Sample Name: BH41

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH41	0.5	0	SW-SM	(0-25') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small- large subangular to subrounded gravel (0.5-17cm), no stain, no odor.
Dry	<120	0	No	BH41	4	5		@4' Color change to tan
Dry	<120	0.0	No	BH41	10	10		@15' Color change to light brown, decrease of large gravel, abundant small subrounded gravel (1-3cm)
Dry	<120	0	No	BH41	15	15		@18' Increase of silt, color change to reddish brown
Dry	<120	0	No	BH41	20	20		@22.5 Color change to tan
Dry	164	0	No	BH41	25	25	CL	(25-30') CLAY, dry, reddish brown, medium plasticity, cohesive some gypsum, no stain, no odor.
Dry	120	0	No	BH41	29	30		@28.5' Abundant gypsum

Total Depth



Sample Name: BH42

Date: 09/12/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346638, -104.309197

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH42	0.5	0	SP-SM	(0-2') SAND, dry, light brown, poorly graded with some silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH42	4	5	SW-SM	(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	<120	0.0	No	BH42	10	10		@5' Color change to brown
Dry	<120	0	No	BH42	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH42	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	120	0	No	BH42	25	25	SP-SM	@25' Color change to tan
Dry	120	0	No	BH42	29	30		

Total Depth



Sample Name: BH43

Date: 09/10/2024

Site Name: Barbados State #001

Incident Number: nAB1619656595

Job Number: 18178

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Sonic

Site Coordinates: 32.346289, -104.308311

Hole Diameter: 4"

Total Depth: 30'

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	<120	0	No	BH43	0.5	0	SP-SM	(0-5') SAND, dry, light brown, poorly graded with silt, very fine- fine grain, trace organic, no stain, no odor.
Dry	<120	0	No	BH43	4	5		(2-21') SAND, dry, tan, well graded with some silt, fine to coarse, small to large gravel (2-12cm), subrounded to subangular, no stain, no odor
Dry	120	0	No	BH43	10	10		@5' Color change to brown
Dry	<120	0	No	BH43	15	15		@11.5' Color change to tan
Dry	<120	0	No	BH43	20	20		(21-31') SAND, dry, reddish brown, poorly graded with abundant silt, very fine to fine, trace small gravel, no stain, no odor
Dry	<120	0	No	BH43	25	25	CL	@25' Color change to tan
Dry	<120	0	No	BH43	29	30		

Total Depth

APPENDIX G

Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Barbados State #001 SWD

Incident Number nAB1619656595

**Photograph 1****Date: 01/22/2024**

Description: Southeastern view of Delineation activities near BH02.

**Photograph 2****Date: 01/23/2024**

Description: Western view of Delineation activities near BH06.

**Photograph 3****Date: 01/25/2024**

Description: Northeastern view of Delineation activities near BH16.

**Photograph 4****Date: 01/29/2024**

Description: Southeastern view of Delineation activities near BH18.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Barbados State #001 SWD

Incident Number nAB1619656595

**Photograph 5****Date: 01/30/2024**

Description: Southwestern view of Delineation activities near BH23.

**Photograph 6****Date: 01/31/2024**

Description: Southwestern view of Delineation activities near BH25.

**Photograph 7****Date: 02/05/2024**

Description: Southeastern view of Delineation activities near BH20.

**Photograph 8****Date: 02/06/2024**

Description: Eastern view of Delineation activities near BH21.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Barbados State #001 SWD

Incident Number nAB1619656595

**Photograph 5****Date: 09/09/2024**

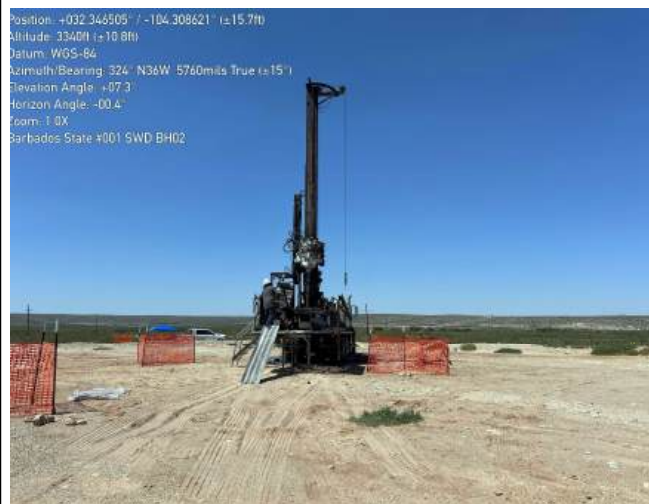
Description: Southeastern view of Delineation activities near BH28.

**Photograph 6****Date: 09/10/2024**

Description: Southwestern view of Delineation activities near BH30.

**Photograph 7****Date: 09/11/2024**

Description: Southeastern view of Delineation activities near BH37.

**Photograph 8****Date: 09/12/2024**

Description: Northwestern view of Delineation activities near BH02.

APPENDIX H

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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 nAB161956595									
BH01	07/06/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,060
BH01	07/06/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	434
BH01	07/06/2023	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH01	07/06/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,840
BH01	07/06/2023	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,790
BH01	07/06/2023	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,320
BH01	07/06/2023	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,210
BH01	01/24/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	248
BH01	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH02	07/06/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,480
BH02	07/06/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,040
BH02	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	258
BH02	01/24/2024	14	<0.0250	<0.0500	<20.0	78.1	<50.0	78.1	179
BH02	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,430
BH02	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,790
BH02	09/12/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	146
BH03	01/24/2024	0.5	<0.0250	<0.0500	<20.0	26.8	<50.0	26.8	5,020
BH03	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	693
BH03	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH03	01/24/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,840
BH03	01/24/2024	19	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	249
BH03	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH04	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,860
BH04	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	988
BH04	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,850
BH04	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,080
BH04	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,010
BH04	02/05/2024	24	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	239



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	204
BH05	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,120
BH05	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	461
BH05	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	246
BH05	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	175
BH05	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,430
BH05	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	348
BH06	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	93.8
BH06	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	211
BH06	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	79.2
BH06	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	142
BH06	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	654
BH06	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH06	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH07	01/24/2024	0.5	<0.0250	<0.0500	<20.0	1,810	1,060	2,870	2,800
BH07	01/24/2024	4	<0.0250	<0.0500	<20.0	165	122	287	484
BH07	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	129
BH07	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	302
BH07	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	576
BH08	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,060
BH08	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	279
BH08	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	162
BH08	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	409
BH08	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	311
BH08	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	791
BH08	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	489
BH09	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,330
BH09	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,200
BH09	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,610



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH09	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	259
BH09	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	288
BH10	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,680
BH10	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,430
BH10	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,040
BH10	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,410
BH10	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	861
BH10	02/05/2024	24	<0.0250	<0.0500	<20.0	27.1	<50.0	27.1	<200
BH10	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH11	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,780
BH11	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	902
BH11	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,570
BH11	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	956
BH11	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	436
BH11	02/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	544
BH11	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	276
BH12	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,270
BH12	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	133
BH12	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,500
BH12	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	430
BH12	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH12	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	339
BH13	01/24/2024	0.5	<0.0250	<0.0500	<20.0	145	<250	145	4,000
BH13	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	138
BH13	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	455
BH13	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	02/06/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	239



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH13	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	237
BH14	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,670
BH14	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH14	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,550
BH14	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	734
BH14	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	424
BH14	01/25/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	180
BH15	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,830
BH15	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,650
BH15	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	198
BH15	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	262
BH15	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH16	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,660
BH16	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,250
BH16	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,580
BH16	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	522
BH16	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH17	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH17	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	98.6
BH17	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	176
BH17	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	532
BH17	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	291
BH17	01/30/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	242
BH18	01/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH18	01/29/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	63.5
BH18	01/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	281



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH19	01/25/2024	0.5	<0.0250	<0.0500	<20.0	39.8	<50.0	39.8	4,320
BH19	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,970
BH19	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,250
BH19	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,290
BH19	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,630
BH19	01/25/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH20	01/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH20	01/29/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	99.9
BH20	01/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,530
BH20	01/29/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH20	01/29/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	962
BH20	02/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	328
BH20	02/05/2024	29	<0.0260	<0.0520	<20.8	<25.0	<50.0	<50.0	252
BH21	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH21	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	72.1
BH21	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,250
BH21	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,790
BH21	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH21	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH21	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH22	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	5,040 [†]
BH22	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	312 [†]
BH22	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	134
BH22	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	106
BH22	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH22	01/30/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH23	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,340 [†]
BH23	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,550
BH23	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	338



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH24	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,150 [†]
BH24	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	756
BH24	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	283
BH25	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	46.5 [†]
BH25	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	166
BH25	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	449
BH25	01/31/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	116
BH25	01/31/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	136
BH25	01/31/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	49.5
BH26	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH26	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	45.6
BH26	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	131
BH26	01/31/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	61.1
BH26	01/31/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	73.7
BH26	01/31/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	45.9
BH27	09/09/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	25.0 [†]
BH27	09/09/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH27	09/09/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH27	09/09/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH27	09/09/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH27	09/09/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH27	09/09/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH28	09/09/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH28	09/09/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH29	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	46.6 [†]
BH29	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	170
BH29	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH29	09/10/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH29	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH29	09/10/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH29	09/10/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH30	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	328 [†]
BH30	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH30	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH30	09/10/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	204
BH30	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH30	09/10/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH30	09/10/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	227
BH31	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200 [†]
BH31	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH31	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH31	09/10/2024	15	<0.0500	<0.100	<40.0	<25.0	<50.0	<50.0	<200
BH31	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH31	09/10/2024	25	<0.0500	<0.100	<40.0	<25.0	<50.0	<50.0	<200
BH31	09/10/2024	29	<0.0500	<0.100	<40.0	<25.0	<50.0	<50.0	<200
BH32	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	190 [†]
BH32	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	113
BH32	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	108
BH32	09/10/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	115
BH32	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	114
BH32	09/10/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	117
BH32	09/10/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	106
BH33	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH33	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	29.4
BH33	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH33	09/10/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	23.8
BH33	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	107
BH33	09/10/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH33	09/10/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH34	09/09/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	55.2 [†]
BH34	09/09/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	53.2
BH34	09/09/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	37.8
BH34	09/09/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	52.3
BH34	09/09/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	119
BH34	09/09/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH34	09/09/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH35	09/09/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH35	09/09/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	29.6
BH35	09/09/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	39.8
BH35	09/09/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	24.3
BH35	09/09/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	109
BH35	09/09/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	115
BH35	09/09/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH36	09/09/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	41.7 [†]
BH36	09/09/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	64.1
BH36	09/09/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH36	09/09/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH36	09/09/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	36.4
BH36	09/09/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH36	09/09/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	114
BH37	09/11/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH37	09/11/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH37	09/11/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	50.2
BH37	09/11/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	112
BH37	09/11/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	81.5
BH37	09/11/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	44.3
BH37	09/11/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	38.3
BH38	09/11/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH38	09/11/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH38	09/11/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	116
BH38	09/11/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	135
BH38	09/11/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	112
BH38	09/11/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	45.2
BH38	09/11/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	47.6
BH39	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH39	09/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	73.1
BH39	09/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	76.3
BH39	09/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	73.6
BH39	09/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	178
BH39	09/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	34.0
BH39	09/12/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	42.4
BH40	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH40	09/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	176
BH40	09/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	184
BH40	09/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	188
BH40	09/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	135
BH40	09/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	181
BH40	09/12/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	35.3
BH41	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0 [†]
BH41	09/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	39.8
BH41	09/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	40.7



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH41	09/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	187
BH41	09/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	94.8
BH41	09/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	114
BH41	09/12/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	106
BH42	09/12/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	22.1 ¹
BH42	09/12/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	191
BH42	09/12/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	35.3
BH42	09/12/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	71.5
BH42	09/12/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	149
BH42	09/12/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	184
BH42	09/12/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	113
BH43	09/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	107 ¹
BH43	09/10/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	78.8
BH43	09/10/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH43	09/10/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH43	09/10/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH43	09/10/2024	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH43	09/10/2024	29	<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:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E307018

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307018
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 0.5'	5
BHO1 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E307018-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 4'	E307018-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:30:00PM

BH01 0.5'

E307018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.7 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328010	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	4060	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:30:00PM

BHO1 4'

E307018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.2 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2328010	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	434	20.0	1	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1) Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

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 (2328010-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

LCS (2328010-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2328010-MS1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	20100	1250	250	21400	NR	38-132			M4
Surrogate: n-Nonane	64.7		50.0		129	50-200			

Matrix Spike Dup (2328010-MSD1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	21000	1250	250	21400	NR	38-132	4.67	20	M4
Surrogate: n-Nonane	66.9		50.0		134	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:30

- M4Matrix 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.
- 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.

[illegible]

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:						<div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)								Date	Time
Edyta Kozan		07/06/2023	15:10	Michelle Gonzales								07-06-23	1510
Relinquished by: (Signature)		Date	Time	Received by: (Signature)								Date	Time
Michelle Gonzales		07-06-23	1630	Caitlin Man		7/10/23	8:10						
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 Analytical Laboratory

Printed: 7/10/2023 9:07:26AM

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:	07/10/23 08:10	Work Order ID:	E307018
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:05	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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: Barbados State #001 SWD

Work Order: E307019

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307019
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 8'	5
BH01 12'	6
BH01 16'	7
BH01 18'	8
BH01 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 03/13/24 16:28
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
BH01 8'	E307019-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 12'	E307019-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 16'	E307019-03A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 18'	E307019-04A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 20'	E307019-05A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 8'

E307019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328015	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>	95.0 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	1060	20.0	1	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 12'

E307019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.0 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/11/23	07/11/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2328008
Chloride	1840	20.0	1	07/10/23	07/10/23	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/13/2024 4:28:44PM
--	--	----------------------------------

BH01 16'

E307019-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	2790	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 18'

E307019-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	2320	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 20'

E307019-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	1210	200	10	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/13/2024 4:28:44PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1)

Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1)

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328015-BLK1)					Prepared: 07/11/23 Analyzed: 07/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2328015-BS1)					Prepared: 07/11/23 Analyzed: 07/11/23				
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike (2328015-MS1)					Source: E307023-06		Prepared: 07/11/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

Matrix Spike Dup (2328015-MSD1)					Source: E307023-06		Prepared: 07/11/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	0.881	20	
Surrogate: n-Nonane	43.2		50.0		86.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:28

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E307019		Job Number 01058-0007		CWA	
Project Manager: Anna Buyer		Address: 5315 Buena Vista Dr.						SDWA	
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220						5 day TAT	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502						RCRA	
Phone: (575) 200-6754		Email: jim.raley@dvn.com						State	
Email: Devon-team@etechnv.com		WO: N/A						NM CO UT AZ TX	
Collected by: Edyte Konan		Incident ID: nAB1619656595							

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	BDOC NM	TX	GDOC	Remarks
8:50	7/6/2023	S	1	PH01	1	8'						X			
9:00	7/6/2023	S	1	PH01	2	12'						X			
9:10	7/6/2023	S	1	PH01	3	16'						X			
9:20	7/6/2023	S	1	PH01	4	18'						X			
9:30	7/6/2023	S	1	PH01	5	20'						X			

Additional Instructions:

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

Sampled by:

Relinquished by: (Signature) Edyte Konan	Date 07/06/2023	Time 15:10	Received by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1510
Relinquished by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1630	Received by: (Signature) Caitlin Man	Date 7/10/23	Time 8:10
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

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

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

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

Envirotech Analytical Laboratory

Printed: 7/10/2023 9:13:43AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/10/23 08:10	Work Order ID:	E307019
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:09	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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.

Project Information

Chain of Custody

Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Buyer				Address: 5315 Buena Vista Dr.		E307019		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/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: (575) 200-6754				Email: jim.raley@dv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WO: N/A														
Collected by: Edyte Konan				Incident ID: nAB1619656595										Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
8:50	7/6/2023	S	1	PH01 BH01	1	8'						X			per. G. Moreno 3/16/24			
9:00	7/6/2023	S	1	PH01 BH01	2	12'						X						
9:10	7/6/2023	S	1	PH01 BH01	3	16'						X						
9:20	7/6/2023	S	1	PH01 BH01	4	18'						X						
9:30	7/6/2023	S	1	PH01 BH01	5	20'						X						

Additional Instructions:

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

Sampled by:

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) Edyte Konan	Date 07/06/2023	Time 15:10	Received by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1510	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1630	Received by: (Signature) <i>Carla Man</i>	Date 7/10/23	Time 8:10	
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.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E307020

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307020
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 0.5'	5
BH02 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E307020-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH02 4'	E307020-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:27:30PM

BH02 0.5'

E307020-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/11/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/11/23	
Toluene	ND	0.0250	1	07/10/23	07/11/23	
o-Xylene	ND	0.0250	1	07/10/23	07/11/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/11/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		07/10/23	07/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.9 %	70-130		07/10/23	07/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328010	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>	91.6 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	3480	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:27:30PM

BH02 4'

E307020-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328010
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	1040	20.0	1	07/10/23	07/11/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/13/2024 4:27:30PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1)

Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1)

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

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 (2328010-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

LCS (2328010-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2328010-MS1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	20100	1250	250	21400	NR	38-132			M4
Surrogate: n-Nonane	64.7		50.0		129	50-200			

Matrix Spike Dup (2328010-MSD1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	21000	1250	250	21400	NR	38-132	4.67	20	M4
Surrogate: n-Nonane	66.9		50.0		134	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:27

- 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: 7/10/2023 9:28:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/10/23 08:10	Work Order ID:	E307020
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:20	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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.

[illegible]

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401165

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401165
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 22'	5
BH01 24'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 22'	E401165-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH01 24'	E401165-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:11:51PM

BH01 22'

E401165-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	109 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	109 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405002
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
Surrogate: n-Nonane	82.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	248	100	5	01/26/24	01/27/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:11:51PM

BH01 24'

E401165-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405002
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
Surrogate: n-Nonane		85.4 %	50-200	01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	ND	200	10	01/26/24	01/27/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2405002-BLK1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:11

- 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.

Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401165		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/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dm.com														NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:00	1.24.24	S	1	BH01	1	22'									X							
9:05	1.24.24	S	1	BH01	2	24'									X							
<div>California</div>																						
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>California</i> Date: 1/24/24 Time: 6:52												Received by: (Signature) <i>Michelle Frey</i> Date: 1-24-24 Time: 1852										
Relinquished by: (Signature) <i>Michelle Frey</i> Date: 1-25-24 Time: 1400												Received by: (Signature) <i>John Hesse</i> Date: 1-25-24 Time: 1630										
Relinquished by: (Signature) <i>John Hesse</i> Date: 1-25-24 Time: 2330												Received by: (Signature) <i>Mykhailo R. Hesse</i> Date: 1-26-24 Time: 0630										
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: 1/26/2024 12:16:47PM

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:	01/26/24 06:30	Work Order ID:	E401165
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:19	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401166

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401166
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 10'	5
BH02 14'	6
BH02 20'	7
BH02 24'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/02/24 14:39
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'	E401166-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 14'	E401166-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 20'	E401166-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 24'	E401166-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:39:40PM
--	--	--

BH02 10'

E401166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.5 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>	82.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	258	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:39:40PM

BH02 14'

E401166-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	78.1	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	79.1 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	179	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 2/2/2024 2:39:40PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH02 20'

E401166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
Surrogate: n-Nonane	83.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2430	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:39:40PM

BH02 24'

E401166-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	72.1 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	1790	40.0	2	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1) Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

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 (2405002-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

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 (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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

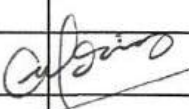
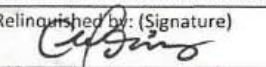
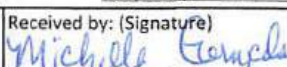
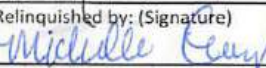
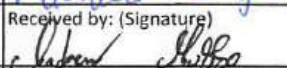
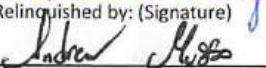

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:39

- 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: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 401166		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dv.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WBS/WO: 21196155												x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:10	1.24.24	S	1	BH02	1	10'								X						
9:15	1.24.24	S	1	BH02	2	14'								X						
9:20	1.24.24	S	1	BH02	3	20'								X						
9:25	1.24.24	S	1	BH02	4	24'								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: GM																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
		1/24/24	6:52			1-24-24	1852	Received on ice: <u>Y</u> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3												
		1-25-24	1400			1-25-24	1630													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
		1-25-24	2330			1-26-24	0630	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: 1/26/2024 11:53:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401166
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401159

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401159
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH03 0.5'	5
BH03 4'	6
BH03 10'	7
BH03 14'	8
BH03 19'	9
BH03 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 02/01/24 16:09
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E401159-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 4'	E401159-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 10'	E401159-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 14'	E401159-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 19'	E401159-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 24'	E401159-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:09:43PM
--	--	--

BH03 0.5'

E401159-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	110 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	110 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	26.8	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	112 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	5020	100	5	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 4'

E401159-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		111 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	693	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 10'

E401159-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		111 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1010	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 14'

E401159-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		110 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1840	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 19'

E401159-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	29.5	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	249	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 24'

E401159-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		109 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		109 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		112 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	ND	200	10	01/26/24	01/26/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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 (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)

Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)

Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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 (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404062-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/27/24		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:09

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																											
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401159		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State																										
Phone: 832-541-7719				Email: jim.raley@dm.com														NM	CO	UT	AZ	TX																						
Email: Devon-team@etechenv.com				WBS/WO: 21196155														x																										
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks																										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																																							
9:25	1.24.24	S	1	BH03	1	0.5'									X																													
9:30	1.24.24	S	1	BH03	2	4'									X																													
9:35	1.24.24	S	1	BH03	3	10'									X																													
9:40	1.24.24	S	1	BH03	4	14'									X																													
9:45	1.24.24	S	1	BH03	5	19'									X																													
9:50	1.24.24	S	1	BH03	6	24'									X																													
<div>Additional Instructions:</div> <p>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: GM</p> <table><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td><td rowspan="3">Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u></td></tr><tr><td><i>Colson</i></td><td>1/24/24</td><td>6:52</td><td><i>Michelle Eayle</i></td><td>1-24-24</td><td>1852</td></tr><tr><td><i>Michelle Eayle</i></td><td>1-25-24</td><td>1400</td><td><i>John Hoss</i></td><td>1-25-24</td><td>1630</td></tr><tr><td><i>Andrew Hoss</i></td><td>1-25-24</td><td>2330</td><td><i>Kayleigh R Hall</i></td><td>1-26-24</td><td>0630</td><td></td></tr></table> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p> <p>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.</p>																			Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	<i>Colson</i>	1/24/24	6:52	<i>Michelle Eayle</i>	1-24-24	1852	<i>Michelle Eayle</i>	1-25-24	1400	<i>John Hoss</i>	1-25-24	1630	<i>Andrew Hoss</i>	1-25-24	2330	<i>Kayleigh R Hall</i>	1-26-24	0630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																																						
<i>Colson</i>	1/24/24	6:52	<i>Michelle Eayle</i>	1-24-24	1852																																							
<i>Michelle Eayle</i>	1-25-24	1400	<i>John Hoss</i>	1-25-24	1630																																							
<i>Andrew Hoss</i>	1-25-24	2330	<i>Kayleigh R Hall</i>	1-26-24	0630																																							

Envirotech Analytical Laboratory

Printed: 1/29/2024 1:39:36PM

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:	01/26/24 06:30	Work Order ID:	E401159
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:16	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401161

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401161
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 0.5'	5
BH04 4'	6
BH04 10'	7
BH04 15'	8
BH04 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E401161-01A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 4'	E401161-02A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 10'	E401161-03A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 15'	E401161-04A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 20'	E401161-05A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:20:53PM
--	--	---

BH04 0.5'

E401161-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404062	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>	113 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	1860	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 4'

E401161-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	988	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 10'

E401161-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	4850	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 15'

E401161-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	4080	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 20'

E401161-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	2010	40.0	2	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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 (2404062-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/27/24		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404065-BLK1)				Prepared: 01/26/24 Analyzed: 01/26/24					
Chloride	ND	20.0							
LCS (2404065-BS1)				Prepared: 01/26/24 Analyzed: 01/26/24					
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)				Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24			
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)				Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24			
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:20

- 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: 1/29/2024 1:31:27PM

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:	01/26/24 06:30	Work Order ID:	E401161
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:17	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E402079

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402079
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 24'	5
BH04 29'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported: 02/14/24 13:45
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 24'	E402079-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH04 29'	E402079-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:45:18PM

BH04 24'

E402079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	25.2	25.0	1	02/09/24	02/10/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406085	
Chloride	239	200	10	02/08/24	02/08/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:45:18PM

BH04 29'

E402079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406085
Chloride	204	200	10	02/08/24	02/08/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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 (2406083-BLK1)Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)Source: E402082-01Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)Source: E402082-01Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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 (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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 (2406099-BLK1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406085-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406085-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406085-MS1)					Source: E402074-03		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	3600	200	250	3210	155	80-120			M4
Matrix Spike Dup (2406085-MSD1)					Source: E402074-03		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	3430	200	250	3210	88.2	80-120	4.73	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:45

- 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.
- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- 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: 2/8/2024 8:18:16AM

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:	02/08/24 06:00	Work Order ID:	E402079
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:38	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401169

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401169
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH05 0.5'	5
BH05 4'	6
BH05 10'	7
BH05 15'	8
BH05 19'	9
BH05 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/02/24 14:43
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'	E401169-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 4'	E401169-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 10'	E401169-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 15'	E401169-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 19'	E401169-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 24'	E401169-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 0.5'

E401169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	4120	40.0	2	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 4'

E401169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	82.6 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	461	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 10'**E401169-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	246	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 15'

E401169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	175	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 19'

E401169-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	1430	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 24'

E401169-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.0 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	348	200	10	01/29/24	01/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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 (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

LCS (2404056-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	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	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2404056-MS1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2404056-MSD1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	0.443	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	0.247	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.322	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	0.260	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.300	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.287	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

LCS (2404056-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2404056-MS2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

Matrix Spike Dup (2404056-MSD2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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 (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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 (2405016-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	ND	20.0							
LCS (2405016-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2405016-MS1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	749	20.0	250	461	115	80-120			
Matrix Spike Dup (2405016-MSD1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	739	20.0	250	461	111	80-120	1.37	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

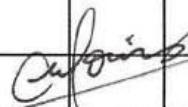
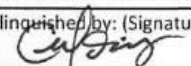
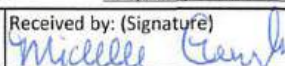
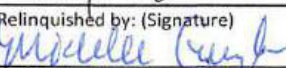
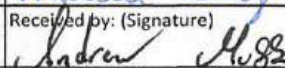
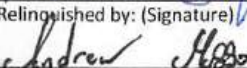

DNI Did Not Ignite

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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401169		01058-007					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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com														NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WBS/WO: 21196155														x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
10:20	1.24.24	S	1	BH05	1	0.5'									X							
10:25	1.24.24	S	1	BH05	2	4'									X							
10:30	1.24.24	S	1	BH05	3	10'									X							
10:35	1.24.24	S	1	BH05	4	15'									X							
10:40	1.24.24	S	1	BH05	5	19'									X							
10:45	1.24.24	S	1	BH05	6	24'									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														
		1/24/24	6:52			1-24-24	1852	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1														
		1-25-24	1400			1-25-24	1630	T2														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3														
		1-25-24	2330			1-26-24	0630	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: 1/26/2024 1:35:11PM

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	Date Received:	01/26/24 06:30	Work Order ID:	E401169
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:21	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401162

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401162
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 0.5'	5
BH06 4'	6
BH06 10'	7
BH06 15'	8
BH06 20'	9
BH06 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 0.5'	E401162-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 4'	E401162-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 10'	E401162-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 15'	E401162-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 20'	E401162-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 24'	E401162-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 0.5'

E401162-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
Surrogate: n-Nonane	87.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	93.8	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 4'

E401162-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	77.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	211	20.0	1	01/26/24	01/26/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:22:38PM
--	--	----------------------------------

BH06 10'

E401162-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	79.2	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 15'

E401162-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	80.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	142	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 20'

E401162-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	656	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 24'

E401162-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	82.7 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	1010	20.0	1	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:22

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.

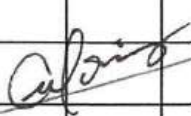
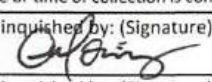
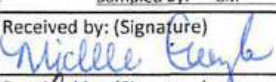
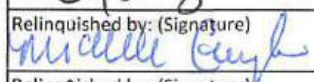
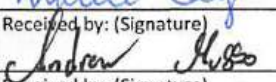
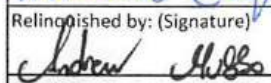
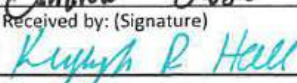
Note (1): Methods marked with ** are non-accredited methods.

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



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program										
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E401162		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	TDS	Cation/Anion	BGDOC NM	TX	GDOC								
Phone: 832-541-7719				Email: jim.raley@dvn.com													State							
Email: Devon-team@etechnv.com				WBS/WO: 21196155													NM	CO	UT	AZ	TX			
Collected by: Gilbert Moreno				Incident ID: nAB161956595																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks								
11:00	1.24.24	S	1	BH06	1	0.5'							X											
11:05	1.24.24	S	1	BH06	2	4'							X											
11:10	1.24.24	S	1	BH06	3	10'							X											
11:15	1.24.24	S	1	BH06	4	15'							X											
11:20	1.24.24	S	1	BH06	5	20'							X											
11:25	1.24.24	S	1	BH06	6	24'							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												
		1/24/24		6:52				1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1												
		1-25-24		1400				1-25-24		1630		T2												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3												
		1-25-24		7330				1-26-24		0630		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: 1/29/2024 1:27:11PM

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	Date Received:	01/26/24 06:30	Work Order ID:	E401162
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402081

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402081
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 29'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 29'	E402081-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:42:31PM

BH06 29'

E402081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2407018	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/24	02/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/24	02/12/24	
<i>Surrogate: n-Nonane</i>						
	87.7 %	50-200		02/12/24	02/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	423	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:42:31PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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 (2407018-BLK1) Prepared: 02/12/24 Analyzed: 02/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

LCS (2407018-BS1) Prepared: 02/12/24 Analyzed: 02/12/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.4	38-132			
Surrogate: n-Nonane	39.8		50.0		79.7	50-200			

Matrix Spike (2407018-MS1) Source: E402075-23 Prepared: 02/12/24 Analyzed: 02/12/24

Diesel Range Organics (C10-C28)	877	25.0	250	707	68.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			

Matrix Spike Dup (2407018-MSD1) Source: E402075-23 Prepared: 02/12/24 Analyzed: 02/12/24

Diesel Range Organics (C10-C28)	938	25.0	250	707	92.5	38-132	6.72	20	
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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 (2406107-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	ND	20.0							
LCS (2406107-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:42

- 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.



Project Information

Chain of Custody

Page 1 of 1

[illegible]

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: GM

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>C. B. King</i>	Date 2-7-24	Time 10:45	Received by: (Signature) <i>Michelle Gayle</i>	Date 2-7-24	Time 1045	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gayle</i>	Date 2-7-24	Time 1600	Received by: (Signature) <i>Andrew Hobbs</i>	Date 2-7-24	Time 1800	
Relinquished by: (Signature) <i>Andrew Hobbs</i>	Date 2-7-24	Time 2400	Received by: (Signature) <i>Kyle P. H. C.</i>	Date 2-8-24	Time 0600	
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: 2/8/2024 8:13:40AM

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:	02/08/24 06:00	Work Order ID:	E402081
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:40	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E402082

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402082
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 29'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 29'	E402082-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 2:07:15PM

BH06 29'

E402082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2407018	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/24	02/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/24	02/13/24	
<i>Surrogate: n-Nonane</i>						
	85.3 %	50-200		02/12/24	02/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/10/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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 (2407018-BLK1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

LCS (2407018-BS1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	214	25.0	250		85.4	38-132			
Surrogate: n-Nonane	39.8		50.0		79.7	50-200			

Matrix Spike (2407018-MS1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	877	25.0	250	707	68.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			

Matrix Spike Dup (2407018-MSD1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	938	25.0	250	707	92.5	38-132	6.72	20	
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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 (2406107-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	ND	20.0							
LCS (2406107-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 14:07

- ND

Analyte NOT DETECTED at or above the reporting limit
- NR

Not Reported
- RPD

Relative Percent Difference
- DNI

Did Not Ignite
- DNR

Did not react with the addition of acid or base.
- Note (1):

Methods marked with ** are non-accredited methods.
- Note (2):

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

Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only		TAT				EPA Program										
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E402082	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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State						
Phone: 832-541-7719					Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WBS/WO: 21196155												x						
Collected by: Gilbert Moreno					Incident ID: nAB161956595												Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
11:10	2.5.24	S	1	BH06	1	24'									X								
<i>Calpine</i>																							

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: GM

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>Calpine</i>	2-7-24	10:45	<i>Michelle Gayf</i>	2-7-24	1045
<i>Michelle Gayf</i>	2-7-24	1600	<i>Andrew Moss</i>	2-7-24	1800
<i>Andrew Moss</i>	2-7-24	2400	<i>Kristen R Hall</i>	2-8-24	0600

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 on ice: ☒ Y / ☐ N

T1 T2 T3

AVG Temp °C 4



envirotech

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:10:58AM

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:	02/08/24 06:00	Work Order ID:	E402082
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:40	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401164

Job Number: 01058-0007

Received: 1/26/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401164
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH07 0.5'	5
BH07 4'	6
BH07 10'	7
BH07 15'	8
BH07 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 15:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 0.5'	E401164-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 4'	E401164-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 10'	E401164-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 15'	E401164-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 19'	E401164-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 3:48:21PM
--	--	---------------------------------

BH07 0.5'

E401164-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	1810	125	5	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	1060	250	5	01/29/24	01/29/24	
Surrogate: n-Nonane	84.4 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2800	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 4'

E401164-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	165	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	122	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	84.4 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	484	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 10'

E401164-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	129	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 15'

E401164-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	81.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	302	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 19'

E401164-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	77.5 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	576	20.0	1	01/31/24	01/31/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1) Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405002-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405005-BLK1)						Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	ND	20.0							
LCS (2405005-BS1)						Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)				Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)				Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 15:48

- 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.



Client: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program	
Project: Barbados State #001 SWD		Attention: Jim Raley		Lab WO#		1D 2D 3D Standard		CWA SDWA	
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E401164		Job Number		01058-0007	
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method		5 Day TAT		RCRA	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502		Depth (ft.)				State	
Phone: 832-541-7719		Email: jim.raley@dyn.com		TPH GRO/DRO/ORO by 8015		BTEX by 8021		NM CO UT AZ TX	
Email: Devon-team@etechnv.com		WBS/WO: 21196155		VOC by 8260		Metals 6010		x	
Collected by: Gilbert Moreno		Incident ID: nAB161956595		Chloride 300.0		TDS			
				Cation/Anion		BGDOC NM		Remarks	
				GDOC TX					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
11:30	1.24.24	S	1	BH07	1	0.5'								X		
11:35	1.24.24	S	1	BH07	2	4'								X		
11:40	1.24.24	S	1	BH07	3	10'								X		
11:45	1.24.24	S	1	BH07	4	15'								X		
11:50	1.24.24	S	1	BH07	5	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: GM

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: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Gilbert Moreno</i>	1/24/24	6:52	<i>Michelle Gayle</i>	1-24-24	1852	
<i>Michelle Gayle</i>	1-25-24	1400	<i>Andrew Helbo</i>	1-25-24	1630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Helbo</i>	1-25-24	2330	<i>Kyle R. Hill</i>	1-26-24	0630	

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: 1/26/2024 12:27:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401164
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401167

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401167
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH08 0.5'	5
BH08 4'	6
BH08 10'	7
BH08 15'	8
BH08 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 0.5'	E401167-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 4'	E401167-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 10'	E401167-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 15'	E401167-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 19'	E401167-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:40:39PM
--	--	--

BH08 0.5'

E401167-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>	85.0 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	3060	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 4'

E401167-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	279	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 10'

E401167-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	81.4 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	162	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 15'

E401167-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	81.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	409	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 19'

E401167-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	311	20.0	1	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1) Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

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 (2405002-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:40

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program										
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401167		0105B-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 by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC								
Phone: 832-541-7719				Email: jim.raley@dvn.com															State							
Email: Devon-team@etechnv.com				WBS/WO: 21196155															NM CO UT AZ TX							
Collected by: Gilbert Moreno				Incident ID: nAB161956595																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																				
11:55	1.24.24	S	1	BH08	1	0.5'									X											
12:00	1.24.24	S	1	BH08	2	4'									X											
12:05	1.24.24	S	1	BH08	3	10'									X											
12:10	1.24.24	S	1	BH08	4	15'									X											
12:15	1.24.24	S	1	BH08	5	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) <i>G. Moreno</i>				Date 1/24/24		Time 6:52		Received by: (Signature) <i>Michelle Gough</i>				Date 1-24-24		Time 1852		Lab Use Only										
Relinquished by: (Signature) <i>Michelle Gough</i>				Date 1-25-24		Time 1400		Received by: (Signature) <i>Andrew Higgs</i>				Date 1-25-24		Time 1630		Received on ice: <input checked="" type="checkbox"/> Y / N										
Relinquished by: (Signature) <i>Andrew Higgs</i>				Date 1-25-24		Time 1730		Received by: (Signature) <i>Kyleigh R. Hill</i>				Date 1-26-24		Time 0630		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																
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: 1/26/2024 11:38:35AM

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:	01/26/24 06:30	Work Order ID:	E401167
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E402080

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402080
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH08 24'	5
BH08 29'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 24'	E402080-01A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH08 29'	E402080-02A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:44:28PM

BH08 24'

E402080-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406109	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	98.2 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406091	
Chloride	791	20.0	1	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:44:28PM

BH08 29'

E402080-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	95.6 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406091
Chloride	489	200	10	02/08/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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 (2406109-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2406109-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike (2406109-MS1)					Source: E402007-03		Prepared: 02/09/24 Analyzed: 02/09/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike Dup (2406109-MSD1)					Source: E402007-03		Prepared: 02/09/24 Analyzed: 02/09/24		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	2.33	20	
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406091-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406091-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2406091-MS1)					Source: E402057-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	356	20.0	250	100	102	80-120			
Matrix Spike Dup (2406091-MSD1)					Source: E402057-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	347	20.0	250	100	98.6	80-120	2.69	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:44

- 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

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:16:15AM

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:	02/08/24 06:00	Work Order ID:	E402080
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:39	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401168

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401168
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH09 0.5'	5
BH09 4'	6
BH09 10'	7
BH09 15'	8
BH09 19'	9
BH09 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E401168-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 4'	E401168-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 10'	E401168-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 15'	E401168-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 19'	E401168-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 24'	E401168-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:42:12PM
--	--	---------------------------------

BH09 0.5'
E401168-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
Surrogate: n-Nonane	114 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2330	20.0	1	01/31/24	01/31/24	

Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 4'

E401168-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2200	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 10'

E401168-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	1610	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 15'

E401168-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	ND	200	10	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 19'

E401168-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	259	200	10	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:42:12PM
--	--	---------------------------------

BH09 24'

E401168-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	288	200	10	01/31/24	01/31/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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 (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

LCS (2404056-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	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	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2404056-MS1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2404056-MSD1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	0.443	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	0.247	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.322	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	0.260	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.300	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.287	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

LCS (2404056-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2404056-MS2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

Matrix Spike Dup (2404056-MSD2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405014-BLK1) Prepared: 01/29/24 Analyzed: 01/29/24

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 (2405014-BS1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2405014-MS1) Source: E401173-02 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.3	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2405014-MSD1) Source: E401173-02 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132	5.89	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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 (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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

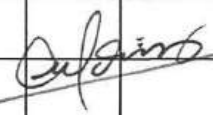
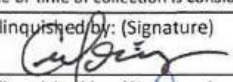
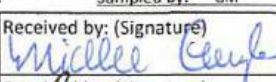
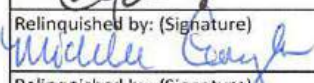
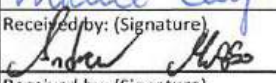
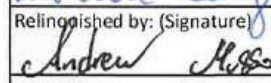
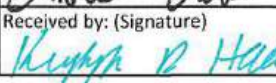
WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:42

- 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.

Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program					
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#				Job Number				1D 2D 3D Standard CWA SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401168				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																	
Email: Devon-team@etechenv.com				WBS/WO: 21196155																	
Collected by: Gilbert Moreno				Incident ID: nAB161956595																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
																	NM	CO	UT	AZ	TX
																	x				
Remarks																					
12:20	1.24.24	S	1	BH09	1	0.5'								X							
12:25	1.24.24	S	1	BH09	2	4'								X							
12:30	1.24.24	S	1	BH09	3	10'								X							
12:35	1.24.24	S	1	BH09	4	15'								X							
12:40	1.24.24	S	1	BH09	5	19'								X							
12:45	1.24.24	S	1	BH09	6	24'								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					
				1/24/24		6:52						1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3					
				1-25-24		1400						1-25-24		1630							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C					
				1-25-24		2330						1-26-24		0630		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: 1/26/2024 2:00:38PM

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:	01/26/24 06:30	Work Order ID:	E401168
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401163

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401163
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH10 0.5'	5
BH10 4'	6
BH10 10'	7
BH10 15'	8
BH10 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 0.5'	E401163-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 4'	E401163-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 10'	E401163-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 15'	E401163-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 19'	E401163-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:25:50PM
--	--	----------------------------------

BH10 0.5'

E401163-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
Surrogate: n-Nonane	81.9 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	1680	20.0	1	01/26/24	01/26/24	

Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 4'

E401163-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>	82.8 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	1430	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 10'

E401163-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	3040	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 15'

E401163-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	2410	40.0	2	01/26/24	01/27/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 19'

E401163-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404072
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/24	01/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/24	01/28/24	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		01/27/24	01/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	791	200	10	01/26/24	01/27/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

Volatile Organics by EPA 8021B

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 (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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 (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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 (2404072-BLK1) Prepared: 01/27/24 Analyzed: 01/28/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.2	50-200			

LCS (2404072-BS1) Prepared: 01/27/24 Analyzed: 01/28/24

Diesel Range Organics (C10-C28)	205	25.0	250		82.0	38-132			
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			

Matrix Spike (2404072-MS1) Source: E401178-10 Prepared: 01/27/24 Analyzed: 01/28/24

Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.3	38-132			
Surrogate: n-Nonane	39.8		50.0		79.5	50-200			

Matrix Spike Dup (2404072-MSD1) Source: E401178-10 Prepared: 01/27/24 Analyzed: 01/28/24

Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132	1.62	20	
Surrogate: n-Nonane	40.4		50.0		80.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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 (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:25

- 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: 1/26/2024 12:38:58PM

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:	01/26/24 06:30	Work Order ID:	E401163
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401160

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401160
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH11 0.5'	5
BH11 4'	6
BH11 10'	7
BH11 15'	8
BH11 19'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 0.5'	E401160-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 4'	E401160-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 10'	E401160-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 15'	E401160-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 19'	E401160-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:10:35PM
--	--	---------------------------------

BH11 0.5'

E401160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2404054	
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2404054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404062	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	115 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404057	
Chloride	1780	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 4'

E401160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	902	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 10'

E401160-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		113 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1570	100	5	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 15'

E401160-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		112 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	956	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 19'

E401160-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		113 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	436	200	10	01/26/24	01/26/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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 (2404054-BLK1)					Prepared: 01/26/24 Analyzed: 01/29/24				
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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)					Prepared: 01/26/24 Analyzed: 01/29/24				
Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)					Source: E401158-03	Prepared: 01/26/24 Analyzed: 01/29/24			
Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)					Source: E401158-03	Prepared: 01/26/24 Analyzed: 01/29/24			
Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404062-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1)					Source: E401160-05		Prepared: 01/26/24 Analyzed: 01/27/24		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:10

- 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				<div>Bill To</div> <div>Attention: Jim Raley</div> <div>Address: 5315 Buena Vista Dr.</div> <div>City, State, Zip: Carlsbad, NM, 88220</div> <div>Phone: 575-885-7502</div> <div>Email: jim.raley@dv.com</div> <div>WBS/WO: 21196155</div> <div>Incident ID: nAB161956595</div>				Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD								Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno								E401160		01058-0007					5 Day TAT							
Address: 13000 W County Rd 100								Analysis and Method											RCRA			
City, State, Zip: Odessa, TX, 79765								Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719																		NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				x																		
Collected by: Gilbert Moreno														Remarks								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
13:25	1.24.24	S	1	BH11	1	0.5'						X										
13:30	1.24.24	S	1	BH11	2	4'						X										
13:35	1.24.24	S	1	BH11	3	10'						X										
13:40	1.24.24	S	1	BH11	4	15'						X										
13:45	1.24.24	S	1	BH11	5	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: GM																						
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>						Lab Use Only										
Date: 1/24/24						Date: 1-24-24						Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N										
Time: 6:52						Time: 1:52																
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>						T1										
Date: 1-25-24						Date: 1-25-24						T2										
Time: 1400						Time: 1630						T3										
Relinquished by: (Signature) <i>[Signature]</i>						Received by: (Signature) <i>[Signature]</i>						AVG Temp °C 4										
Date: 1-25-24						Date: 1-26-24																
Time: 2330						Time: 0630																
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: 1/29/2024 1:35:20PM

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:	01/26/24 06:30	Work Order ID:	E401160
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:17	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E402076

Job Number: 01058-0007

Received: 2/8/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/1/24

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: 3/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402076
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH10 24'	5
BH10 29'	6
BH11 24'	7
BH11 29'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/01/24 15:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 24'	E402076-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH10 29'	E402076-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH11 24'	E402076-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH11 29'	E402076-04A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/1/2024 3:31:22PM
--	--	--

BH10 24'

E402076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	27.1	25.0	1	02/09/24	02/10/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
Surrogate: n-Nonane	107 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH10 29'

E402076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH11 24'

E402076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	544	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH11 29'

E402076-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	276	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2406081-BLK1) Prepared: 02/08/24 Analyzed: 02/09/24

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 (2406081-BS1) Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2406081-MS1) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	4.81	0.0250	5.00	ND	96.3	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133			
Toluene	4.80	0.0250	5.00	ND	96.0	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2406081-MSD1) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	5.06	0.0250	5.00	ND	101	54-133	5.08	20	
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133	5.00	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	5.08	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	5.18	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	4.93	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	5.02	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406081-BLK1) Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2406081-BS2) Prepared: 02/08/24 Analyzed: 02/08/24

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

Matrix Spike (2406081-MS2) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2406081-MSD2) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	3.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

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 (2406099-BLK1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406107-BLK1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	ND	20.0							
LCS (2406107-BS1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	275	20.0	250	24.3	100	80-120	1.16	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


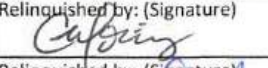
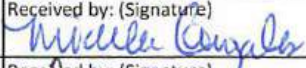
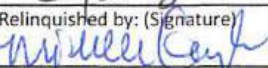
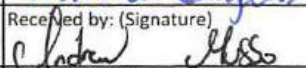

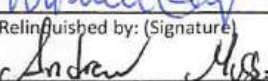

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/01/24 15:31

- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 402076		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719				Email: jim.raley@divn.com														NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x					
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
10:00 13:30	2.5.24	S	1	BH10	1	24'									X								
10:20 13:50	2.5.24	S	1	BH10	2	29'									X								
13:00	2.6.24	S	1	BH11	3	24'									X								
13:20	2.6.24	S	1	BH11	4	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: GM																							
Relinquished by: (Signature) 						Date 2.7.24		Time 10:45		Received by: (Signature) 						Date 2-7-24		Time 1045		Lab Use Only			
Relinquished by: (Signature) 						Date 2-7-24		Time 1600		Received by: (Signature) 						Date 2-7-24		Time 1800		Received on ice:  Y / N			
Relinquished by: (Signature) 						Date 2-7-24		Time 2400		Received by: (Signature) 						Date 2-8-24		Time 0600		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					
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: 2/8/2024 8:24:22AM

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:	02/08/24 06:00	Work Order ID:	E402076
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:34	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401158

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401158
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH12 0.5'	5
BH12 4'	6
BH12 10'	7
BH12 15'	8
BH12 20'	9
BH12 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 0.5'	E401158-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 4'	E401158-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 10'	E401158-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 15'	E401158-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 20'	E401158-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 24'	E401158-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 0.5'

E401158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	107 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	107 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	3270	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 4'

E401158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		106 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	133	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 10'

E401158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	3500	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 15'

E401158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	430	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 20'

E401158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	ND	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 24'

E401158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		114 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	339	200	10	01/26/24	01/26/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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 (2404054-BLK1)					Prepared: 01/26/24 Analyzed: 01/29/24				
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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)					Prepared: 01/26/24 Analyzed: 01/29/24				
Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)					Source: E401158-03		Prepared: 01/26/24 Analyzed: 01/29/24		
Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)					Source: E401158-03		Prepared: 01/26/24 Analyzed: 01/29/24		
Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1) Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2) Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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 (2404053-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.1	50-200			

LCS (2404053-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	204	25.0	250		81.6	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2404053-MS1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.8	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike Dup (2404053-MSD1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.8	38-132	8.96	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:08

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																											
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401158		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State																										
Phone: 832-541-7719				Email: jim.raley@dmv.com														NM	CO	UT	AZ	TX																						
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x																										
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks																										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																																							
13:50	1.24.24	S	1	BH12	1	0.5'									X																													
14:00	1.24.24	S	1	BH12	2	4'									X																													
14:05	1.24.24	S	1	BH12	3	10'									X																													
14:10	1.24.24	S	1	BH12	4	15'									X																													
14:15	1.24.24	S	1	BH12	5	19' Cat									X																													
14:20	1.24.24	S	1	BH12	6	24'									X																													
<div>Additional Instructions:</div> <p>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: GM</p> <table><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td><td rowspan="3">Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u></td></tr><tr><td><i>Calvin</i></td><td>1/24/24</td><td>6:52</td><td><i>Michelle Gough</i></td><td>1-24-24</td><td>1852</td></tr><tr><td><i>Michelle Gough</i></td><td>1-25-24</td><td>1400</td><td><i>Andrew Hobb</i></td><td>1-25-24</td><td>1630</td></tr><tr><td><i>Andrew Hobb</i></td><td>1-25-24</td><td>2330</td><td><i>Kyleigh R Hall</i></td><td>1-26-24</td><td>0630</td><td></td></tr></table> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p> <p>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.</p>																			Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	<i>Calvin</i>	1/24/24	6:52	<i>Michelle Gough</i>	1-24-24	1852	<i>Michelle Gough</i>	1-25-24	1400	<i>Andrew Hobb</i>	1-25-24	1630	<i>Andrew Hobb</i>	1-25-24	2330	<i>Kyleigh R Hall</i>	1-26-24	0630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																																						
<i>Calvin</i>	1/24/24	6:52	<i>Michelle Gough</i>	1-24-24	1852																																							
<i>Michelle Gough</i>	1-25-24	1400	<i>Andrew Hobb</i>	1-25-24	1630																																							
<i>Andrew Hobb</i>	1-25-24	2330	<i>Kyleigh R Hall</i>	1-26-24	0630																																							

Envirotech Analytical Laboratory

Printed: 1/26/2024 2:29:24PM

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:	01/26/24 06:30	Work Order ID:	E401158
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:14	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401170

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401170
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH13 0.5'	5
BH13 4'	6
BH13 10'	7
BH13 15'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH13 0.5'	E401170-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 4'	E401170-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 10'	E401170-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 15'	E401170-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 0.5'

E401170-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	145	125	5	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	250	5	01/26/24	01/27/24	
Surrogate: n-Nonane	87.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	4000	40.0	2	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 4'

E401170-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	79.7 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	138	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 10'

E401170-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.9 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	455	200	10	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 15'

E401170-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.8 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	ND	200	10	01/29/24	01/29/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:28:15PM
--	--	----------------------------------

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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 (2404064-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1)					Source: E401169-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1)					Source: E401169-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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 (2405016-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	ND	20.0							
LCS (2405016-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2405016-MS1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	749	20.0	250	461	115	80-120			
Matrix Spike Dup (2405016-MSD1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	739	20.0	250	461	111	80-120	1.37	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:28

- 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: Barbados State #001 SWD				Attention: Jim Raley						Lab WO#			Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.						E401170			01058-0027							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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State						
Phone: 832-541-7719				Email: jim.raley@dm.com																NM	CO	UT	AZ	TX		
Email: Devon-team@etechenv.com				WBS/WO: 21196155																x						
Collected by: Gilbert Moreno				Incident ID: nAB161956595																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														Remarks							
15:00	1.24.24	S	1	BH13	1	0.5'										X										
15:05	1.24.24	S	1	BH13	2	4'										X										
15:10	1.24.24	S	1	BH13	3	10'										X										
15:15	1.24.24	S	1	BH13	4	15'										X										
<div style="text-align: center;">On file</div>																										
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														
		1/24/24		6:52				1-24-24		1852		Received on ice: Y N														
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3														
		1-25-24		1400				1-25-24		1630																
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4														
		1-25-24		2330				1-26-24		0630																
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: 1/26/2024 11:19:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401170
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:21	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402078

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402078
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH13 20'	5
BH13 24'	6
BH13 29'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/14/24 13:46
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
BH13 20'	E402078-01A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH13 24'	E402078-02A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH13 29'	E402078-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 20'

E402078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
Surrogate: n-Nonane	103 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2406084
Chloride	ND	200	10	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 24'

E402078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2406084
Chloride	239	200	10	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 29'

E402078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2406084
Chloride	237	200	10	02/08/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406109-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2406109-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike (2406109-MS1)					Source: E402007-03		Prepared: 02/09/24 Analyzed: 02/09/24		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike Dup (2406109-MSD1)					Source: E402007-03		Prepared: 02/09/24 Analyzed: 02/09/24		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	2.33	20	
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2406084-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406084-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2406084-MS1)					Source: E402073-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	284	100	250	ND	114	80-120			
Matrix Spike Dup (2406084-MSD1)					Source: E402073-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	303	100	250	ND	121	80-120	6.44	20	M1

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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:46

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:20:21AM

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:	02/08/24 06:00	Work Order ID:	E402078
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:37	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401205

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401205
Date Received: 1/29/2024 10:48:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 10:48:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH14 0.5'	5
BH14 4'	6
BH14 10'	7
BH14 15'	8
BH14 20'	9
BH14 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH14 0.5'	E401205-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 4'	E401205-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 10'	E401205-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 15'	E401205-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 20'	E401205-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 24'	E401205-06A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 0.5'

E401205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	3670	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 4'

E401205-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1060	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 6:45:03PM
--	--	---------------------------------

BH14 10'

E401205-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
Surrogate: n-Nonane	102 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1550	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 15'

E401205-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	734	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 20'

E401205-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	424	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 24'

E401205-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.9 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>	91.6 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	180	100	5	01/31/24	01/31/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1)Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1)Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2405035-BS2) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2405035-MS2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2405035-MSD2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

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 (2405064-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2405064-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2405064-MS1)					Source: E401187-04		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.9	38-132			
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

Matrix Spike Dup (2405064-MSD1)					Source: E401187-04		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.549	20	
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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

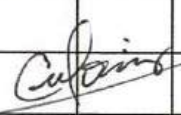
WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:45

- 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.
- 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 <u>0153-001</u>		TAT			EPA Program				
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO# <u>E401205</u>		Job Number <u>PP</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		<u>04100-0631</u>							<u>5 Day TAT</u>		
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@dmv.com											
Email: Devon-team@etechenv.com					WBS/WO: 21196155											
Collected by: Gilbert Moreno					Incident ID: nAB161956595											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
8:00	1.25.24	S	1	BH14	1	0.5'								X		
8:10	1.25.24	S	1	BH14	2	4'								X		
8:20	1.25.24	S	1	BH14	3	10'								X		
8:30	1.25.24	S	1	BH14	4	15'								X		
8:40	1.25.24	S	1	BH14	5	20'								X		
8:50	1.25.24	S	1	BH14	6	24'								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) <u>Gilbert Moreno</u>										Lab Use Only						
Date <u>1/26/24</u> Time <u>0946</u>										Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N						
Relinquished by: (Signature) <u>Michelle Gayle</u>										T1 _____ T2 _____ T3 _____						
Date <u>1-26-24</u> Time <u>1715</u>										AVG Temp °C <u>4</u>						
Relinquished by: (Signature) <u>Andrew M. Ross</u>										Date <u>1-26-24</u> Time <u>10:48</u>						
Date <u>1-26-24</u> Time <u>2300</u>										Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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: 1/29/2024 3:06:02PM

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:	01/29/24 10:48	Work Order ID:	E401205
Phone:	(539) 573-4018	Date Logged In:	01/29/24 10:48	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? No
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: Barbados State #001 SWD

Work Order: E401206

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401206
Date Received: 1/29/2024 10:55:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 10:55:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH15 0.5'	5
BH15 4'	6
BH15 10'	7
BH15 15'	8
BH15 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH15 0.5'	E401206-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 4'	E401206-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 10'	E401206-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 15'	E401206-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 20'	E401206-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 0.5'

E401206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	86.8 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	4830	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 4'

E401206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	2650	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 6:47:22PM
--	--	---------------------------------

BH15 10'

E401206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	86.3 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	198	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 15'

E401206-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	87.4 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	262	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 20'

E401206-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	85.3 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	ND	100	5	01/31/24	01/31/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1)Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1)Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2405035-BS2) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2405035-MS2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2405035-MSD2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

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 (2405066-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			

LCS (2405066-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

Matrix Spike (2405066-MS1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike Dup (2405066-MSD1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	17.7	20	
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:47

- 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: 1/29/2024 3:26:58PM

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:	01/29/24 10:55	Work Order ID:	E401206
Phone:	(539) 573-4018	Date Logged In:	01/29/24 10:55	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E401207

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401207
Date Received: 1/29/2024 11:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 11:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH16 0.5'	5
BH16 4'	6
BH16 10'	7
BH16 15'	8
BH16 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH16 0.5'	E401207-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 4'	E401207-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 10'	E401207-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 15'	E401207-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 20'	E401207-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 0.5'

E401207-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	84.7 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1660	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 4'

E401207-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	1250	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 10'

E401207-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1580	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 15'

E401207-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	88.4 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	522	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 20'

E401207-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	88.4 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	ND	100	5	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1) Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1)					Prepared: 01/30/24 Analyzed: 01/31/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			
LCS (2405035-BS2)					Prepared: 01/30/24 Analyzed: 01/31/24				
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			
Matrix Spike (2405035-MS2)					Source: E401205-01		Prepared: 01/30/24 Analyzed: 01/31/24		
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			
Matrix Spike Dup (2405035-MSD2)					Source: E401205-01		Prepared: 01/30/24 Analyzed: 01/31/24		
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

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 (2405066-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			

LCS (2405066-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

Matrix Spike (2405066-MS1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike Dup (2405066-MSD1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	17.7	20	
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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


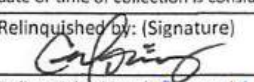
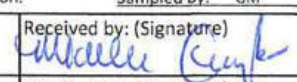
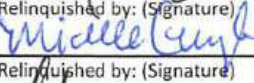
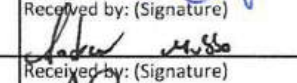
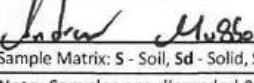
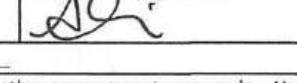
WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:48

- 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.
- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 401207		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State						
Phone: 832-541-7719				Email: jim.raley@dvn.com														NM	CO	UT	AZ	TX		
Email: Devon-team@etechenv.com				WBS/WO: 21196155														x						
Collected by: Gilbert Moreno				Incident ID: nAB161956595																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks							
13:00	1.25.24	S	1	BH16	1	0.5'									X									
13:10	1.25.24	S	1	BH16	2	4'									X									
13:20	1.25.24	S	1	BH16	3	10'									X									
13:30	1.25.24	S	1	BH16	4	15'									X									
13:40	1.25.24	S	1	BH16	5	20'									X									
																								
Additional Instructions:																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										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																
		1/26/24	0946			1-26-24	0946	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____																
		1-26-24	1715			1-26-24	1715																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>																
		1-26-24	2300			1-29-24	11:00																	
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

Envirotech Analytical Laboratory

Printed: 1/29/2024 3:36:36PM

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:	01/29/24 11:00	Work Order ID:	E401207
Phone:	(539) 573-4018	Date Logged In:	01/29/24 11:00	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E402036

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402036
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH17 0.5'	5
BH17 4'	6
BH17 10'	7
BH17 15'	8
BH17 20'	9
BH17 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH17 0.5'	E402036-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 4'	E402036-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 10'	E402036-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 15'	E402036-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 20'	E402036-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 24'	E402036-06A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:29:42PM
--	--	--

BH17 0.5'

E402036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.4 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>	96.2 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 4'

E402036-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	98.6	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 10'

E402036-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	94.1 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	176	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 15'

E402036-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	532	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 20'

E402036-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	291	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 24'

E402036-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	242	200	10	02/03/24	02/05/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405166-BLK1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

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 (2406022-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:29

- 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: Barbados State #001 SWD	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	E 402036	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.)		RCRA
Phone: 832-541-7719	Email: jim.raley@dv.com	TPH GRO/DRO/ORO by 8015		State
mail: Devon-team@etechnv.com	WBS/WO: 21196155	BTEX by 8021		NM CO UT AZ TX
Collected by: Gilbert Moreno	Incident ID: nAB161956595	VOC by 8260		X

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BDOC NM	GDOC TX	Remarks
11:00	1.30.24	S	1	BH17	1	0.5'								X		
11:10	1.30.24	S	1	BH17	2	4'								X		
11:20	1.30.24	S	1	BH17	3	10'								X		
11:30	1.30.24	S	1	BH17	4	15'								X		
11:40	1.30.24	S	1	BH17	5	20'								X		
11:50	1.30.24	S	1	BH17	6	24'								X		1-day Rush

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: GM

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
<i>Gilbert Moreno</i>	2/1/24	10:24	<i>Michelle Gay</i>	2-1-24	10:24	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<i>Michelle Gay</i>	2-1-24	16:30	<i>[Signature]</i>	2-1-24	16:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>[Signature]</i>	2/1/24	23:48	<i>[Signature]</i>	2/2/24	06:00	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: 2/2/2024 12:35:35PM

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

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:31
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402036
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E402035

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402035
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH18 0.5'	5
BH18 4'	6
BH18 10'	7
BH15 15'	8
BH18 20'	9
BH18 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH18 0.5'	E402035-01A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 4'	E402035-02A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 10'	E402035-03A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH15 15'	E402035-04A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 20'	E402035-05A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 24'	E402035-06A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:28:49PM
--	--	--

BH18 0.5'

E402035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>	91.0 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 4'

E402035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	95.2 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	63.5	20.0	1	02/03/24	02/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:28:49PM
--	--	---------------------------------

BH18 10'

E402035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH15 15'

E402035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	92.7 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 20'

E402035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 24'

E402035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>	98.9 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	281	200	10	02/03/24	02/05/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1)Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1)Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1)Source: E402035-05Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1)Source: E402035-05Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

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 (2406022-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:28

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E402035		Job Number 61058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		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: 832-541-7719		Email: jim.raley@dm.com											
Email: Devon-team@etechnv.com		WBS/WO: 21196155											
Collected by: Gilbert Moreno		Incident ID: nAB161956595											

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	TDS	Cation/Anion	BGDOC NM	GDGC TX	Remarks
10:10	1.29.24	S	1	BH18	1	0.5'								X		
10:20	1.29.24	S	1	BH18	2	4'								X		
10:30	1.29.24	S	1	BH18	3	10'								X		
10:40	1.29.24	S	1	BH18	4	15'								X		
10:50	1.29.24	S	1	BH18	5	20'								X		
11:00	1.29.24	S	1	BH18	6	24'								X		1-day Rush

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: GM

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
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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 Analytical Laboratory

Printed: 2/2/2024 12:28:58PM

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@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:24
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402035
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E401208

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/5/24

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: 2/5/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401208
Date Received: 1/29/2024 11:06:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 11:06:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
BH19 4'	6
BH19 10'	7
BH19 15'	8
BH19 20'	9
BH19 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/05/24 13:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH19 0.5'	E401208-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 4'	E401208-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 10'	E401208-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 15'	E401208-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 20'	E401208-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 24'	E401208-06A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/5/2024 1:20:28PM
--	--	--

BH19 0.5'

E401208-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	39.8	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>	107 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	4320	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 4'

E401208-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	1970	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 10'

E401208-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405058
Chloride	1250	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 15'

E401208-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	3290	40.0	2	01/31/24	02/01/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 20'

E401208-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405058
Chloride	1630	200	10	01/31/24	02/01/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 24'

E401208-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	ND	200	10	01/31/24	02/01/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405042-BLK1) Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

LCS (2405042-BS1) Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.97	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2405042-MS1) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.90	0.0250	5.00	ND	98.1	54-133			
Ethylbenzene	4.76	0.0250	5.00	ND	95.2	61-133			
Toluene	4.89	0.0250	5.00	ND	97.8	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2405042-MSD1) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133	0.725	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133	0.477	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	0.639	20	
o-Xylene	4.81	0.0250	5.00	ND	96.3	63-131	0.487	20	
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131	0.496	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	0.493	20	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405042-BLK1) Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			

LCS (2405042-BS2) Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.4	70-130			

Matrix Spike (2405042-MS2) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

Matrix Spike Dup (2405042-MSD2) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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 (2405056-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

LCS (2405056-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	236	25.0	250		94.5	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike (2405056-MS1)					Source: E401191-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.3	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike Dup (2405056-MSD1)					Source: E401191-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.2	38-132	0.0928	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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 (2405058-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405058-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2405058-MS1)					Source: E401208-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1350	20.0	250	1250	38.1	80-120			M4
Matrix Spike Dup (2405058-MSD1)					Source: E401208-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1380	20.0	250	1250	51.3	80-120	2.41	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/05/24 13:20

- 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.

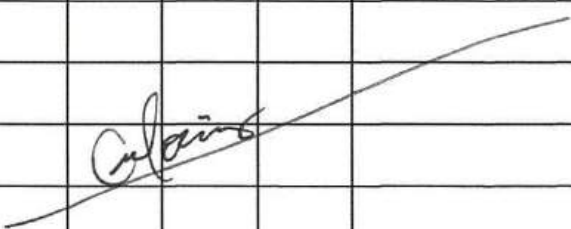
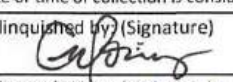
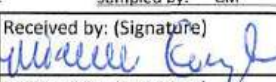
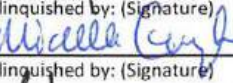
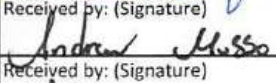
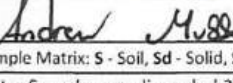
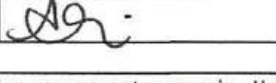
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 401208		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155												x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:00	1.25.24	S	1	BH19	1	0.5'							X							
9:10	1.25.24	S	1	BH19	2	4'							X							
9:20	1.25.24	S	1	BH19	3	10'							X							
9:30	1.25.24	S	1	BH19	4	15'							X							
9:40	1.25.24	S	1	BH19	5	20'							X							
9:50	1.25.24	S	1	BH19	6	24'							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												
		1/26/24	0946			1-26-24	0946	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____												
		1-26-24	1715			1-26-24	1715													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>												
		1-26-24	2300			1-29-24	11:06													
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: 1/29/2024 3:50:02PM

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:	01/29/24 11:06	Work Order ID:	E401208
Phone:	(539) 573-4018	Date Logged In:	01/29/24 11:06	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E402034

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402034
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH20 0.5'	5
BH20 4'	6
BH20 10'	7
BH20 15'	8
BH20 20'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 16:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH20 0.5'	E402034-01A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 4'	E402034-02A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 10'	E402034-03A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 15'	E402034-04A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 20'	E402034-05A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 4:24:34PM
--	--	--

BH20 0.5'

E402034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		123 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		123 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 4'

E402034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/08/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/08/24	
Toluene	ND	0.0250	1	02/02/24	02/08/24	
o-Xylene	ND	0.0250	1	02/02/24	02/08/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/08/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		115 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		106 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		115 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		106 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		94.0 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	99.9	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 10'

E402034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/08/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/08/24	
Toluene	ND	0.0250	1	02/02/24	02/08/24	
o-Xylene	ND	0.0250	1	02/02/24	02/08/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/08/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		108 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		108 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		93.4 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1530	200	10	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 15'

E402034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.4 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1060	200	10	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 20'

E402034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		85.6 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	962	200	10	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 4:24:34PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 4:24:34PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406022-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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 (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 16:24

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E 402034		Q1058-0007		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: 832-541-7719		Email: jim.raley@dvn.com		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
Email: Devon-team@etechenv.com		WBS/WO: 21196155		Chloride 300.0		TDS		Cation/Anion		BGDOC NM	
Collected by: Gilbert Moreno		Incident ID: nAB161956595		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
9:30	1.29.24	S	1	BH20	1	0.5'								X		
9:40	1.29.24	S	1	BH20	2	4'								X		
9:50	1.29.24	S	1	BH20	3	10'								X		
10:00	1.29.24	S	1	BH20	4	15'								X		
10:05	1.29.24	S	1	BH20	5	20'								X		1-day Rush

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: GM

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: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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

Envirotech Analytical Laboratory

Printed: 2/2/2024 12:19:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad
 Phone: (539) 573-4018
 Email: devon-team@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:16
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402034
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E402033

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402033
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH21 0.5'	5
BH21 4'	6
BH21 10'	7
BH21 15'	8
BH21 20'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH21 0.5'	E402033-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 4'	E402033-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 10'	E402033-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 15'	E402033-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 20'	E402033-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 1:57:30PM
--	--	--

BH21 0.5'

E402033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		121 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		121 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>		90.5 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 4'

E402033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.2 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	72.1	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 10'

E402033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		89.7 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	2250	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 15'

E402033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		107 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		107 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.9 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1790	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 20'

E402033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
Surrogate: n-Nonane		92.4 %	50-200	02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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 (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405166-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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 (2406022-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:57

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E 402032		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		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: 832-541-7719		Email: jim.raley@dm.com											
Email: Devon-team@etechnv.com		WBS/WO: 21196155											
Collected by: Gilbert Moreno		Incident ID: nAB161956595											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
8:00	1.30.24	S	1	BH21	1	0.5'								X		
8:10	1.30.24	S	1	BH21	2	4'								X		
8:20	1.30.24	S	1	BH21	3	10'								X		
8:30	1.30.24	S	1	BH21	4	15'								X		
8:40	1.30.24	S	1	BH21	5	20'								X		1-day Rush

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: GM

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>Calvin</i>	Date 2/1/24	Time 10:24	Received by: (Signature) <i>Michelle Raley</i>	Date 2-1-24	Time 1024	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Raley</i>	Date 2-1-24	Time 1630	Received by: (Signature) <i>Jim</i>	Date 2/1/24	Time 16:30	
Relinquished by: (Signature) <i>Jim</i>	Date 2/1/24	Time 23:48	Received by: (Signature) <i>Jim</i>	Date 020224	Time 0210	

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: 2/2/2024 12:12:39PM

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:	02/02/24 06:10	Work Order ID:	E402033
Phone:	(539) 573-4018	Date Logged In:	02/02/24 12:05	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402077

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402077
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH20 24'	5
BH20 29'	6
BH21 24'	7
BH21 29'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH20 24'	E402077-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH20 29'	E402077-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH21 24'	E402077-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH21 29'	E402077-04A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH20 24'

E402077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.1 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	328	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH20 29'

E402077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0260	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0260	1	02/08/24	02/13/24	
Toluene	ND	0.0260	1	02/08/24	02/13/24	
o-Xylene	ND	0.0260	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0520	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0260	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.2 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.8	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.3 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>	107 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	252	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH21 24'

E402077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.5 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.6 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>	104 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH21 29'

E402077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	ND	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:47:04PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406099-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1) Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1) Source: E402065-02 Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1) Source: E402065-02 Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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 (2406107-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	ND	20.0							
LCS (2406107-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	275	20.0	250	24.3	100	80-120	1.16	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.

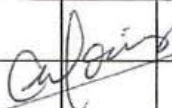
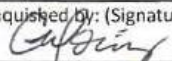
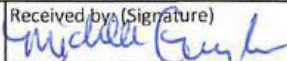
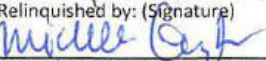
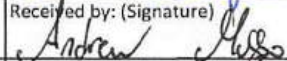
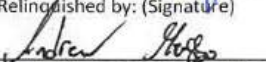



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:47

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E402077							5 Day TAT				
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Job Number				Analysis and Method					RCRA		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502												State			
Phone: 832-541-7719				Email: jim.raley@dnv.com												NM CO UT AZ TX			
Email: Devon-team@etechenv.com				WBS/WO: 21196155												x			
Collected by: Gilbert Moreno				Incident ID: nAB161956595												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	TDS	Cation/Anion	BGDOC NM	GDOC TX				
15:00	2.5.24	S	1	BH20	1	24'								X					
15:20	2.5.24	S	1	BH20	2	29'								X					
8:00	2.6.24	S	1	BH21	3	24'								X					
8:20	2.6.24	S	1	BH21	4	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: GM																			
Relinquished by: (Signature) 						Received by: (Signature) 						Lab Use Only							
Date 2.7.24 Time 10:45						Date 2-7-24 Time 10:45						Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
Relinquished by: (Signature) 						Received by: (Signature) 						T1 T2 T3							
Date 2-7-24 Time 1600						Date 2-7-24 Time 1800													
Relinquished by: (Signature) 						Received by: (Signature) 						AVG Temp °C 4							
Date 2.7.24 Time 2400						Date 2-8-24 Time 0600													
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: 2/8/2024 8:22:22AM

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:	02/08/24 06:00	Work Order ID:	E402077
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:36	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E402032

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402032
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH22 0.5'	5
BH22 4'	6
BH22 10'	7
BH22 15'	8
BH22 20'	9
BH22 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/07/24 13:56
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
BH22 0.5'	E402032-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 4'	E402032-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 10'	E402032-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 15'	E402032-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 20'	E402032-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 24'	E402032-06A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 0.5'

E402032-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2405156	
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene	119 %	70-130		02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		02/02/24	02/05/24	
Surrogate: Toluene-d8	111 %	70-130		02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2405156	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene	119 %	70-130		02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		02/02/24	02/05/24	
Surrogate: Toluene-d8	111 %	70-130		02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane	113 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405168	
Chloride	5040	40.0	2	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 4'

E402032-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		112 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	312	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 10'

E402032-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		107 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	134	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 15'

E402032-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		113 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	106	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 20'

E402032-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		113 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 24'

E402032-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
Surrogate: n-Nonane		95.3 %	50-200	02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 1:56:06PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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 (2405156-BLK1)					Prepared: 02/02/24 Analyzed: 02/06/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2)					Prepared: 02/02/24 Analyzed: 02/06/24				
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2)					Source: E402033-04	Prepared: 02/02/24 Analyzed: 02/06/24			
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2)					Source: E402033-04	Prepared: 02/02/24 Analyzed: 02/06/24			
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405166-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:56

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC	Bill To		Lab Use Only		TAT			EPA Program										
Project: Barbados State #001 SWD	Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA								
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E 40232	61058-0001				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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC	State				
Phone: 832-541-7719	Email: jim.raley@dmv.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com	WBS/WO: 21196155													x				
Collected by: Gilbert Moreno	Incident ID: nAB161956595													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	TDS	Cation/Anion	BGDOC NM	TX	GDOC	Remarks
14:10	1.30.24	S	1	BH22	1	0.5'								X			
14:20	1.30.24	S	1	BH22	2	4'								X			
14:30	1.30.24	S	1	BH22	3	10'								X			
14:40	1.30.24	S	1	BH22	4	15'								X			
14:50	1.30.24	S	1	BH22	5	20'								X			
15:00	1.30.24	S	1	BH22	6	24'								X			1-day Rush

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: GM

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: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Gilbert Moreno</i>	2/1/24	10:24	<i>Michelle Gay</i>	2-1-24	10:24	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gay</i>	2-1-24	16:30	<i>[Signature]</i>	2/1/24	16:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	2/1/24	23:48	<i>[Signature]</i>	02/02/24	06:10	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - OtherContainer 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: 2/2/2024 11:59:59AM

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	Date Received:	02/02/24 06:10	Work Order ID:	E402032
Phone:	(539) 573-4018	Date Logged In:	02/02/24 11:49	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402031

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402031
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH023 0.5'	5
BH023 4'	6
BH023 10'	7
QC Summary Data	8
QC - Volatile Organic Compounds by EPA 8260B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH023 0.5'	E402031-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH023 4'	E402031-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH023 10'	E402031-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 0.5'

E402031-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	120 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	120 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	112 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	4340	40.0	2	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 4'

E402031-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		114 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	2550	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 10'

E402031-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		110 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	338	20.0	1	02/04/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 2:11:58PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)

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

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)

Source: E402027-05

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

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)

Source: E402027-05

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2)

Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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 (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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 (2406023-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
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 (2406023-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 14:11

- 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.



Client: WPX Energy Permian, LLC	Bill To		Lab Use Only		TAT			EPA Program						
Project: Barbados State #001 SWD	Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA					
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.		E 402031	01058-0007				5 Day TAT	SDWA					
Address: 13000 W County Rd 100	City, State, Zip: Carlsbad, NM, 88220		Analysis and Method						RCRA					
City, State, Zip: Odessa, TX, 79765	Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC	Remarks
Phone: 832-541-7719	Email: jim.raley@dmv.com													
mail: Devon-team@etechnv.com	WBS/WO: 21196155													
Collected by: Gilbert Moreno	Incident ID: nAB161956595													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC	Remarks
15:30	1.30.24	S	1	BH23	1	0.5'								X			
15:40	1.30.24	S	1	BH23	2	4'								X			
15:50	1.30.24	S	1	BH23	3	10'								X			1-day Rush

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: GM

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: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Gilbert Moreno</i>	2/1/24	10:24	<i>Michelle Raley</i>	2-1-24	10:24	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Raley</i>	2-1-24	16:30	<i>J. Raley</i>	2/1/24	16:30	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>J. Raley</i>	2/1/24	23:48	<i>J. Raley</i>	2/2/24	00:10	

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: 2/3/2024 10:25:05AM

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:	02/02/24 06:10	Work Order ID:	E402031
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:46	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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?	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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402030

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402030
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH024 0.5'	5
BH024 4'	6
BH024 10'	7
QC Summary Data	8
QC - Volatile Organic Compounds by EPA 8260B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH024 0.5'	E402030-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH024 4'	E402030-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH024 10'	E402030-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:55:18PM
--	--	---

BH024 0.5'

E402030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	02/02/24	02/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	02/02/24	02/04/24	
<i>Surrogate: Toluene-d8</i>		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	02/02/24	02/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	02/02/24	02/04/24	
<i>Surrogate: Toluene-d8</i>		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	6150	100	5	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:55:18PM

BH024 4'

E402030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		112 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	756	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:55:18PM

BH024 10'

E402030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		108 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	283	20.0	1	02/04/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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 (2405151-BLK1) Prepared: 02/02/24 Analyzed: 02/03/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1) Prepared: 02/02/24 Analyzed: 02/03/24

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/03/24

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2)

Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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 (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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 (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:55

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E 402030		Job Number 010558-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		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: 832-541-7719		Email: jim.raley@dv.com											
Email: Devon-team@etechnv.com		WBS/WO: 21196155											
Collected by: Gilbert Moreno		Incident ID: nAB161956595											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDGC TX	Remarks
8:00	1.31.24	S	1	BH24	1	0.5'								X		
8:10	1.31.24	S	1	BH24	2	4'								X		
8:20	1.31.24	S	1	BH24	3	10'								X		1-day Rush

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: GM

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 2/1/24	Time 10:24	Received by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 10:24	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 16:30	Received by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 16:30	
Relinquished by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 23:48	Received by: (Signature) <i>[Signature]</i>	Date 02/02/24	Time 06:10	

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: 2/2/2024 10:43:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	02/02/24 06:10	Work Order ID:	E402030
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:33	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402029

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402029
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH25 0.5'	5
BH25 4'	6
BH25 10'	7
BH25 15'	8
BH25 20'	9
BH25 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25 0.5'	E402029-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 4'	E402029-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 10'	E402029-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 15'	E402029-04A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 20'	E402029-05A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 24'	E402029-06A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 0.5'

E402029-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	113 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	46.5	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 4'

E402029-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	166	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 10'

E402029-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	449	40.0	2	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 15'

E402029-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	116	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 20'

E402029-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	136	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 24'

E402029-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	49.5	20.0	1	02/03/24	02/05/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:27

- 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: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: WPX Energy Permian, LLC	Bill To	Lab Use Only		TAT			EPA Program												
Project: Barbados State #001 SWD		Attention: Jim Raley	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.	E402029	01058-007				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	TDS	Cation/Anion	BGDOC NM	TX	GDOC	State					
Phone: 832-541-7719		Email: jim.raley@dv.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com		WBS/WO: 21196155													x				
Collected by: Gilbert Moreno	Incident ID: nAB161956595	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	TDS	Cation/Anion	BGDOC NM	TX	GDOC	Remarks
8:50	1.31.24	S	1	BH25	1	0.5'								X			
9:00	1.31.24	S	1	BH25	2	4'								X			
9:10	1.31.24	S	1	BH25	3	10'								X			
9:20	1.31.24	S	1	BH25	4	15'								X			
9:30	1.31.24	S	1	BH25	5	20'								X			
9:40	1.31.24	S	1	BH25	6	24'								X			1-day Rush

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:** GM

Relinquished by: (Signature) <i>Calvin</i>	Date 2/1/24	Time 10:24	Received by: (Signature) <i>Michelle Raley</i>	Date 2-1-24	Time 10:24	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Raley</i>	Date 2-1-24	Time 16:30	Received by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time	
Relinquished by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 23:48	Received by: (Signature) <i>Therese</i>	Date 2/2/24	Time 06:10	

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 671 of 1686

Envirotech Analytical Laboratory

Printed: 2/2/2024 10:30:48AM

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:	02/02/24 06:10	Work Order ID:	E402029
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:24	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: 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? 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 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: Barbados State #001 SWD

Work Order: E402028

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402028
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH26 0.5'	5
BH26 4'	6
BH26 10'	7
BH26 15'	8
BH26 20'	9
BH26 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH26 0.5'	E402028-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 4'	E402028-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 10'	E402028-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 15'	E402028-04A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 20'	E402028-05A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 24'	E402028-06A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:57:01PM
--	--	---

BH26 0.5'

E402028-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	121 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	110 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	121 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	110 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	110 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 4'

E402028-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		114 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		114 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		109 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	45.6	20.0	1	02/04/24	02/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:57:01PM
--	--	----------------------------------

BH26 10'

E402028-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		110 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	131	20.0	1	02/04/24	02/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:57:01PM
--	--	----------------------------------

BH26 15'

E402028-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		104 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	61.1	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 20'

E402028-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		108 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	73.7	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 24'

E402028-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		111 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	45.9	20.0	1	02/04/24	02/05/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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 (2405151-BLK1)				Prepared: 02/02/24 Analyzed: 02/03/24					
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)				Prepared: 02/02/24 Analyzed: 02/03/24					
Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)				Source: E402027-05	Prepared: 02/02/24 Analyzed: 02/03/24				
Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)				Source: E402027-05	Prepared: 02/02/24 Analyzed: 02/05/24				
Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1) Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2) Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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 (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:57

- 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: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E402028		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/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDOC								
Phone: 832-541-7719					Email: jim.raley@dmv.com													State							
Email: Devon-team@etechnv.com					WBS/WO: 21196155													NM CO UT AZ TX							
Collected by: Gilbert Moreno					Incident ID: nAB161956595												Remarks								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																				
10:00	1.31.24	S	1	BH26	1	0.5'								X											
10:10	1.31.24	S	1	BH26	2	4'								X											
10:20	1.31.24	S	1	BH26	3	10'								X											
10:30	1.31.24	S	1	BH26	4	15'								X											
10:40	1.31.24	S	1	BH26	5	20'								X											
10:50	1.31.24	S	1	BH26	6	24'								X		1-day Rush									

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: GM

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
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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

Envirotech Analytical Laboratory

Printed: 2/2/2024 10:20:57AM

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@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 09:48
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402028
 Logged In By: Jessica Liesse

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? 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 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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409081

Job Number: 01058-0007

Received: 9/11/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409081
Date Received: 9/11/2024 6:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/11/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH27 - 0.5'	5
BH27 - 4'	6
BH27 - 10'	7
BH27 - 15'	8
BH27 - 20'	9
BH27 - 25'	10
BH27 - 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 10:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH27 - 0.5'	E409081-01A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 4'	E409081-02A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 10'	E409081-03A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 15'	E409081-04A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 20'	E409081-05A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 25'	E409081-06A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH27 - 29'	E409081-07A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 10:58:13AM
---	--	--

BH27 - 0.5'

E409081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/11/24	
Toluene	ND	0.0250	1	09/11/24	09/11/24	
o-Xylene	ND	0.0250	1	09/11/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
<i>Surrogate: n-Nonane</i>		76.6 %	50-200	09/11/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	25.0	20.0	1	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:58:13AM

BH27 - 4'

E409081-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/11/24	
Toluene	ND	0.0250	1	09/11/24	09/11/24	
o-Xylene	ND	0.0250	1	09/11/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.8 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
<i>Surrogate: n-Nonane</i>						
	78.4 %	50-200		09/11/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	100	5	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 10:58:13AM
---	--	-----------------------------------

BH27 - 10'
E409081-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/11/24	
Toluene	ND	0.0250	1	09/11/24	09/11/24	
o-Xylene	ND	0.0250	1	09/11/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/11/24	
Surrogate: 4-Bromochlorobenzene-PID	87.4 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
Surrogate: n-Nonane	82.8 %	50-200		09/11/24	09/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:58:13AM

BH27 - 15'

E409081-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/11/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/11/24	
Toluene	ND	0.0250	1	09/11/24	09/11/24	
o-Xylene	ND	0.0250	1	09/11/24	09/11/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/11/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		09/11/24	09/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
<i>Surrogate: n-Nonane</i>						
	76.5 %	50-200		09/11/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:58:13AM

BH27 - 20'

E409081-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
<i>Surrogate: n-Nonane</i>						
	81.7 %	50-200		09/11/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:58:13AM

BH27 - 25'

E409081-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/12/24	
<i>Surrogate: n-Nonane</i>						
	81.3 %	50-200		09/11/24	09/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:58:13AM

BH27 - 29'

E409081-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437049	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	78.4 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:58:13AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437053-BLK1) Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			

LCS (2437053-BS1) Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	4.50	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.28	0.0250	5.00		85.6	70-130			
Toluene	4.40	0.0250	5.00		87.9	70-130			
o-Xylene	4.26	0.0250	5.00		85.2	70-130			
p,m-Xylene	8.71	0.0500	10.0		87.1	70-130			
Total Xylenes	13.0	0.0250	15.0		86.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.8	70-130			

Matrix Spike (2437053-MS1) Source: E409081-01 Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	4.39	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.18	0.0250	5.00	ND	83.5	61-133			
Toluene	4.29	0.0250	5.00	ND	85.8	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.50	0.0500	10.0	ND	85.0	63-131			
Total Xylenes	12.7	0.0250	15.0	ND	84.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2437053-MSD1) Source: E409081-01 Prepared: 09/11/24 Analyzed: 09/11/24

Benzene	4.56	0.0250	5.00	ND	91.2	54-133	3.87	20	
Ethylbenzene	4.37	0.0250	5.00	ND	87.3	61-133	4.44	20	
Toluene	4.47	0.0250	5.00	ND	89.4	61-130	4.07	20	
o-Xylene	4.35	0.0250	5.00	ND	87.1	63-131	4.58	20	
p,m-Xylene	8.89	0.0500	10.0	ND	88.9	63-131	4.53	20	
Total Xylenes	13.2	0.0250	15.0	ND	88.3	63-131	4.55	20	
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		89.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:58:13AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437053-BLK1) Prepared: 09/11/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

LCS (2437053-BS2) Prepared: 09/11/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	40.6	20.0	50.0		81.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

Matrix Spike (2437053-MS2) Source: E409081-01 Prepared: 09/11/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike Dup (2437053-MSD2) Source: E409081-01 Prepared: 09/11/24 Analyzed: 09/11/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.3	70-130	1.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:58:13AM

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 (2437049-BLK1)					Prepared: 09/11/24 Analyzed: 09/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.5	50-200			

LCS (2437049-BS1)					Prepared: 09/11/24 Analyzed: 09/12/24				
Diesel Range Organics (C10-C28)	198	25.0	250		79.3	38-132			
Surrogate: n-Nonane	41.3		50.0		82.6	50-200			

Matrix Spike (2437049-MS1)					Source: E409065-03		Prepared: 09/11/24 Analyzed: 09/12/24		
Diesel Range Organics (C10-C28)	198	25.0	250	ND	79.1	38-132			
Surrogate: n-Nonane	41.2		50.0		82.4	50-200			

Matrix Spike Dup (2437049-MSD1)					Source: E409065-03		Prepared: 09/11/24 Analyzed: 09/12/24		
Diesel Range Organics (C10-C28)	191	25.0	250	ND	76.4	38-132	3.43	20	
Surrogate: n-Nonane	43.3		50.0		86.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:58:13AM

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 (2437058-BLK1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	ND	20.0							
LCS (2437058-BS1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2437058-MS1)					Source: E409080-02		Prepared: 09/11/24 Analyzed: 09/11/24		
Chloride	303	200	250	ND	121	80-120			M6
Matrix Spike Dup (2437058-MSD1)					Source: E409080-02		Prepared: 09/11/24 Analyzed: 09/11/24		
Chloride	303	200	250	ND	121	80-120	0.0561	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 10:58

- 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.



Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 409081		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/DRO 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: 21196155														
Incident ID: nAPP2223636403																		
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:00	09.09.24	S	1	BH27	1	0.5'						X						
11:30	09.09.24	S	1	BH27	2	4'						X						
12:00	09.09.24	S	1	BH27	3	10'						X						
12:30	09.09.24	S	1	BH27	4	15'						X						
13:00	09.09.24	S	1	BH27	5	20'						X						
13:30	09.09.24	S	1	BH27	6	25'						X						
14:00	09.09.24	S	1	BH27	7	29'						X						
09/10/2024																		
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]		09/10/24	6:30	Michelle Gonzales		9-10-24	0630	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Michelle Gonzales		9-10-24	16:00	Andrew Hubbs		9-10-24	1730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
Andrew Hubbs		9-10-24	2400	Kyngh R Heale		9-11-24	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.																		



Envirotech Analytical Laboratory

Printed: 9/11/2024 9:36:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	09/11/24 06:00	Work Order ID:	E409081
Phone:	(575) 748-0176	Date Logged In:	09/10/24 15:59	Logged In By:	Noe Soto
Email:	anna@ensolum.com	Due Date:	09/17/24 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

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409081		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/DRG/ORG 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@etechnv.com				WO: 21196155														
Incident ID: nAPP2223636403				nAB1619656595														
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:00	09.09.24	S	1	BH27	1	0.5'						X		Incident ID updated				
11:30	09.09.24	S	1	BH27	2	4'						X		per A. Byers				
12:00	09.09.24	S	1	BH27	3	10'						X		9/13/24 - RAS				
12:30	09.09.24	S	1	BH27	4	15'						X						
13:00	09.09.24	S	1	BH27	5	20'						X						
13:30	09.09.24	S	1	BH27	6	25'						X						
14:00	09.09.24	S	1	BH27	7	29'						X						
09/10/2024																		
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										
[Signature]		09/10/24	6:30	Michelle Gonzales		9-10-24	0630	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
Michelle Gonzales		9-10-24	11:00	Andrew Hubbs		9-10-24	1730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>										
Andrew Hubbs		9-10-24	2400	Kathryn R. Heale		9-11-24	0600											
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409080

Job Number: 01058-0007

Received: 9/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409080
Date Received: 9/11/2024 6:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/11/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH28 0.5'	5
BH28 4'	6
BH28 10'	7
BH28 15'	8
BH28 20'	9
BH28 25'	10
BH28 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 10:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH28 0.5'	E409080-01A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 4'	E409080-02A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 10'	E409080-03A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 15'	E409080-04A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 20'	E409080-05A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 25'	E409080-06A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.
BH28 29'	E409080-07A	Soil	09/09/24	09/11/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 10:52:47AM
---	--	--

BH28 0.5'

E409080-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.1 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>	86.1 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	20.0	1	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 4'

E409080-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	75.0 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 10'

E409080-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.0 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.1 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>	82.9 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 15'

E409080-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.4 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	79.0 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 20'

E409080-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	87.9 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.7 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>	84.8 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 25'

E409080-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.6 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	99.4 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>	81.3 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:52:47AM

BH28 29'

E409080-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Benzene	ND	0.0250	1	09/11/24	09/12/24	
Ethylbenzene	ND	0.0250	1	09/11/24	09/12/24	
Toluene	ND	0.0250	1	09/11/24	09/12/24	
o-Xylene	ND	0.0250	1	09/11/24	09/12/24	
p,m-Xylene	ND	0.0500	1	09/11/24	09/12/24	
Total Xylenes	ND	0.0250	1	09/11/24	09/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.6 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/24	09/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.4 %	70-130		09/11/24	09/12/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437050	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/24	09/13/24	
<i>Surrogate: n-Nonane</i>	82.5 %	50-200		09/11/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2437058	
Chloride	ND	200	10	09/11/24	09/11/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:52:47AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437052-BLK1)

Prepared: 09/11/24 Analyzed: 09/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			

LCS (2437052-BS1)

Prepared: 09/11/24 Analyzed: 09/12/24

Benzene	5.35	0.0250	5.00		107	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.25	0.0250	5.00		105	70-130			
o-Xylene	5.11	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	7.05		8.00		88.1	70-130			

Matrix Spike (2437052-MS1)

Source: E409079-01

Prepared: 09/11/24 Analyzed: 09/12/24

Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133			
Toluene	4.93	0.0250	5.00	ND	98.6	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			

Matrix Spike Dup (2437052-MSD1)

Source: E409079-01

Prepared: 09/11/24 Analyzed: 09/12/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	1.65	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	1.16	20	
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	1.20	20	
o-Xylene	4.84	0.0250	5.00	ND	96.8	63-131	1.52	20	
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	63-131	1.19	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	1.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:52:47AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437052-BLK1) Prepared: 09/11/24 Analyzed: 09/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

LCS (2437052-BS2) Prepared: 09/11/24 Analyzed: 09/12/24

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

Matrix Spike (2437052-MS2) Source: E409079-01 Prepared: 09/11/24 Analyzed: 09/12/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	83.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2437052-MSD2) Source: E409079-01 Prepared: 09/11/24 Analyzed: 09/12/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.3	70-130	5.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:52:47AM

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 (2437050-BLK1)					Prepared: 09/11/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.1		50.0		100	50-200			

LCS (2437050-BS1)					Prepared: 09/11/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	208	25.0	250		83.3	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike (2437050-MS1)					Source: E409079-01		Prepared: 09/11/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.3	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

Matrix Spike Dup (2437050-MSD1)					Source: E409079-01		Prepared: 09/11/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.8	38-132	1.79	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:52:47AM

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 (2437058-BLK1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	ND	20.0							
LCS (2437058-BS1)					Prepared: 09/11/24 Analyzed: 09/11/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2437058-MS1)					Source: E409080-02		Prepared: 09/11/24 Analyzed: 09/11/24		
Chloride	303	200	250	ND	121	80-120			M6
Matrix Spike Dup (2437058-MSD1)					Source: E409080-02		Prepared: 09/11/24 Analyzed: 09/11/24		
Chloride	303	200	250	ND	121	80-120	0.0561	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 10:52

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 9/11/2024 9:33:35AM

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:	Devon Energy - Carlsbad	Date Received:	09/11/24 06:00	Work Order ID:	E409080
Phone:	(575) 748-0176	Date Logged In:	09/10/24 15:55	Logged In By:	Raina Schwanz
Email:	anna@ensolum.com	Due Date:	09/17/24 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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP					Bill To		Lab Use Only				TAT				EPA Program	
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 409080		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											
Email: Devon-team@etechnv.com					WO: 21196155											
					Incident ID: APP2223636403											
Collected by: Edyte Konan					n AB1109656595											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRC/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	EDOC TX	Remarks		
15:00	09.09.24	S	1	BH28	1	0.5'						X		incident ID		
15:30	09.09.24	S	1	BH28	2	4'						X		updated per A. Byers		
16:00	09.09.24	S	1	BH28	3	10'						X		9/10/24 - RAS		
16:30	09.09.24	S	1	BH28	4	15'						X				
17:00	09.09.24	S	1	BH28	5	20'						X				
17:30	09.09.24	S	1	BH28	6	25'						X				
18:00	09.09.24	S	1	BH28	7	29'						X				
09/10/2024																
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								
[Signature]		09/10/24	6:30	Michelle Gonzales		9-10-24	0630	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
Michelle Gonzales		9-10-24	1600	[Signature]		9-10-24	1730									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C								
[Signature]		9-10-24	2400	[Signature]		9-11-24	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.																



envirotech

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409098

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/13/25

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: 2/13/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409098
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH29 0.5'	5
BH29 4'	6
BH29 10'	7
BH29 15'	8
BH29 20'	9
BH29 25'	10
BH29 29'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA 8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/13/25 09:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH29 0.5'	E409098-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 4'	E409098-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 10'	E409098-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 15'	E409098-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 20'	E409098-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 25'	E409098-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH29 29'	E409098-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 0.5'

E409098-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		106 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
Surrogate: n-Nonane		72.3 %	50-200	09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	46.6	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 4'

E409098-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
Surrogate: n-Nonane		74.3 %	50-200	09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	170	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 10'

E409098-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		102 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		108 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		77.3 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 15'

E409098-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		78.2 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 20'

E409098-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		110 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		104 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		110 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		72.7 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 25'

E409098-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		74.4 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:28:17AM

BH29 29'

E409098-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437079
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene		101 %	70-130	09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	09/13/24	09/16/24	
Surrogate: Toluene-d8		109 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437088
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane		78.5 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2437096
Chloride	ND	200	10	09/13/24	09/13/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:28:17AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437079-BLK1)

Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.1	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2437079-BS1)

Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.32	0.0250	2.50		92.6	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.7	70-130			
Toluene	2.38	0.0250	2.50		95.2	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.67	0.0500	5.00		93.3	70-130			
Total Xylenes	6.98	0.0250	7.50		93.1	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike (2437079-MS1)

Source: E409098-04

Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.33	0.0250	2.50	ND	93.3	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.39	0.0250	2.50	ND	95.6	48-130			
o-Xylene	2.31	0.0250	2.50	ND	92.3	43-135			
p,m-Xylene	4.63	0.0500	5.00	ND	92.6	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2437079-MSD1)

Source: E409098-04

Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.34	0.0250	2.50	ND	93.6	48-131	0.321	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.2	45-135	0.0849	27	
Toluene	2.39	0.0250	2.50	ND	95.6	48-130	0.0419	24	
o-Xylene	2.36	0.0250	2.50	ND	94.5	43-135	2.31	27	
p,m-Xylene	4.76	0.0500	5.00	ND	95.2	43-135	2.71	27	
Total Xylenes	7.12	0.0250	7.50	ND	94.9	43-135	2.57	27	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:28:17AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437079-BLK1)

Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.451		0.500		90.1	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

LCS (2437079-BS2)

Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2437079-MS2)

Source: E409098-04

Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike Dup (2437079-MSD2)

Source: E409098-04

Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	1.63	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:28:17AM

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 (2437088-BLK1) Prepared: 09/13/24 Analyzed: 09/13/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.7		50.0		77.5	50-200			

LCS (2437088-BS1) Prepared: 09/13/24 Analyzed: 09/13/24

Diesel Range Organics (C10-C28)	193	25.0	250		77.2	38-132			
Surrogate: n-Nonane	39.5		50.0		79.1	50-200			

Matrix Spike (2437088-MS1) Source: E409097-06 Prepared: 09/13/24 Analyzed: 09/13/24

Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.7	38-132			
Surrogate: n-Nonane	40.3		50.0		80.7	50-200			

Matrix Spike Dup (2437088-MSD1) Source: E409097-06 Prepared: 09/13/24 Analyzed: 09/13/24

Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.9	38-132	4.95	20	
Surrogate: n-Nonane	38.4		50.0		76.7	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:28:17AM

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 (2437096-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437096-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2437096-MS1)					Source: E409093-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	751	20.0	250	466	114	80-120			
Matrix Spike Dup (2437096-MSD1)					Source: E409093-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	708	20.0	250	466	96.9	80-120	5.82	20	

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/13/25 09:28

- 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: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Page 17 of 19

Client: Devon Energy Production Co LP		Bill To		Lab Use Only		TAT		EPA Program					
Project: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E409098		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@devn.com											
Email: Devon-team@etechnv.com		WO: 21196155											
		Incident ID: nAPP2223636403											

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	GDOD TX	Remarks
9:00	09.10.24	S	1	BH29	1	0.5'						X		
9:10	09.10.24	S	1	BH29	2	4'						X		
9:20	09.10.24	S	1	BH29	3	10'						X		
9:30	09.10.24	S	1	BH29	4	15'						X		
9:40	09.10.24	S	1	BH29	5	20'						X		
9:50	09.10.24	S	1	BH29	6	25'						X		
10:00	09.10.24	S	1	BH29	7	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 Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	09/12/24	06:00	Michelle Gonzales	9.12.24	06:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzales	9.13.24	0220	Carth Man	9.13.24	7:45	
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

Page 745 of 1686

Envirotech Analytical Laboratory

Printed: 9/13/2024 9:05:40AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409098
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:09	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409098		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/DKO 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@devn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21196155														
Incident ID: nAPP2223636403- NS 2-13-25				nAB1619656595														
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
9:00	09.10.24	S	1	BH29	1	0.5'						X		Corrected incident ID				
9:10	09.10.24	S	1	BH29	2	4'						X		per client. NS 2-13-25				
9:20	09.10.24	S	1	BH29	3	10'						X						
9:30	09.10.24	S	1	BH29	4	15'						X						
9:40	09.10.24	S	1	BH29	5	20'						X						
9:50	09.10.24	S	1	BH29	6	25'						X						
10:00	09.10.24	S	1	BH29	7	29'						X						
09/12/2024																		
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						
Michelle Gonzales		09/12/24		06:00		Michelle Gonzales		9.12.24		06:00		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____						
Michelle Gonzales		9.13.24		02:20		Cathy Man		9.13.24		7:45								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409099

Job Number: 01058-0007

Received: 9/13/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409099
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH30 0.5'	5
BH30 4'	6
BH30 10'	7
BH30 15'	8
BH30 20'	9
BH30 25'	10
BH30 29'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 09/25/24 10:59
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH30 0.5'	E409099-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 4'	E409099-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 10'	E409099-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 15'	E409099-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 20'	E409099-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 25'	E409099-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH30 29'	E409099-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 0.5'

E409099-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
<i>Surrogate: Bromofluorobenzene</i>		90.6 %	70-130	09/13/24	09/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.6 %	70-130	09/13/24	09/16/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
<i>Surrogate: Bromofluorobenzene</i>		90.6 %	70-130	09/13/24	09/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.6 %	70-130	09/13/24	09/16/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>		77.9 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	328	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 4'

E409099-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene	89.6 %	70-130		09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/13/24	09/16/24	
Surrogate: Toluene-d8	98.9 %	70-130		09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene	89.6 %	70-130		09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/13/24	09/16/24	
Surrogate: Toluene-d8	98.9 %	70-130		09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	72.2 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 10'

E409099-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene	91.9 %	70-130		09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/13/24	09/16/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
Surrogate: Bromofluorobenzene	91.9 %	70-130		09/13/24	09/16/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		09/13/24	09/16/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	75.3 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 15'

E409099-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	90.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	97.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	90.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	97.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	74.7 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	204	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 20'

E409099-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.4 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.4 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	77.8 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 25'

E409099-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	79.5 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 10:59:34AM

BH30 29'

E409099-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.1 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.1 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	78.0 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	227	20.0	1	09/13/24	09/13/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:59:34AM

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 (2437080-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2437080-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.02	0.0250	2.50		80.8	70-130			
Ethylbenzene	2.04	0.0250	2.50		81.6	70-130			
Toluene	2.17	0.0250	2.50		86.7	70-130			
o-Xylene	2.14	0.0250	2.50		85.7	70-130			
p,m-Xylene	4.31	0.0500	5.00		86.1	70-130			
Total Xylenes	6.45	0.0250	7.50		86.0	70-130			
Surrogate: Bromofluorobenzene	0.452		0.500		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

Matrix Spike (2437080-MS1) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.10	0.0250	2.50	ND	84.2	48-131			
Ethylbenzene	2.14	0.0250	2.50	ND	85.6	45-135			
Toluene	2.28	0.0250	2.50	ND	91.2	48-130			
o-Xylene	2.33	0.0250	2.50	ND	93.3	43-135			
p,m-Xylene	4.66	0.0500	5.00	ND	93.2	43-135			
Total Xylenes	6.99	0.0250	7.50	ND	93.2	43-135			
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2437080-MSD1) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.14	0.0250	2.50	ND	85.7	48-131	1.77	23	
Ethylbenzene	2.17	0.0250	2.50	ND	86.7	45-135	1.32	27	
Toluene	2.31	0.0250	2.50	ND	92.3	48-130	1.16	24	
o-Xylene	2.31	0.0250	2.50	ND	92.2	43-135	1.12	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.4	43-135	0.841	27	
Total Xylenes	6.93	0.0250	7.50	ND	92.3	43-135	0.934	27	
Surrogate: Bromofluorobenzene	0.463		0.500		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:59:34AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437080-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2437080-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130			
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2437080-MS2) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130			
Surrogate: Bromofluorobenzene	0.462		0.500		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2437080-MSD2) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	2.92	20	
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:59:34AM

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 (2437087-BLK1)					Prepared: 09/13/24 Analyzed: 09/14/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.3		50.0		78.6	50-200			

LCS (2437087-BS1)					Prepared: 09/13/24 Analyzed: 09/14/24				
Diesel Range Organics (C10-C28)	200	25.0	250		80.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.7	50-200			

Matrix Spike (2437087-MS1)					Source: E409099-05		Prepared: 09/13/24 Analyzed: 09/14/24		
Diesel Range Organics (C10-C28)	205	25.0	250	ND	82.1	38-132			
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

Matrix Spike Dup (2437087-MSD1)					Source: E409099-05		Prepared: 09/13/24 Analyzed: 09/14/24		
Diesel Range Organics (C10-C28)	206	25.0	250	ND	82.5	38-132	0.464	20	
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 10:59:34AM

Anions by EPA 300.0/9056A

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 (2437101-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437101-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2437101-MS1)					Source: E409100-01		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	364	200	250	ND	145	80-120			M6
Matrix Spike Dup (2437101-MSD1)					Source: E409100-01		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	407	200	250	ND	163	80-120	11.2	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 10:59

- 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.



Refused to Imaging: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Project Information

Chain of Custody

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program			
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO# E409099		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													
Phone: 432-305-6415				Email: jim.raley@dmv.com		Depth(ft.)		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State		
mail: Devon-team@etechnv.com				WO: 21196155											NM	CO	
				Incident ID: nAPP2223636403											UT	AZ	
															TX		
Collected by: Edyte Konan															Remarks		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
10:10	09.10.24	S	1	BH30	1	0.5'							X				
10:20	09.10.24	S	1	BH30	2	4'							X				
10:30	09.10.24	S	1	BH30	3	10'							X				
10:40	09.10.24	S	1	BH30	4	15'							X				
10:50	09.10.24	S	1	BH30	5	20'							X				
11:00	09.10.24	S	1	BH30	6	25'							X				
11:10	09.10.24	S	1	BH30	7	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]		09/12/24	06:00	Michelle Gonzales		9-12-24	06:00	Received on ice: [Signature] N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Michelle Gonzales		9-13-24	06:20	[Signature]		9-13-24	07:45										
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

Envirotech Analytical Laboratory

Printed: 9/13/2024 8:52:49AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409099
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:11	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP					Bill To		Lab Use Only						TAT				EPA Program		
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E409099		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: 21196155														
Incident ID: NAPP2223636403					NAB1109650595														
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					
10:10	09.10.24	S	1	BH30	1	0.5'						X		Incident ID updated per A. Byers 9/15/14 - RAJ					
10:20	09.10.24	S	1	BH30	2	4'						X							
10:30	09.10.24	S	1	BH30	3	10'						X							
10:40	09.10.24	S	1	BH30	4	15'						X							
10:50	09.10.24	S	1	BH30	5	20'						X							
11:00	09.10.24	S	1	BH30	6	25'						X							
11:10	09.10.24	S	1	BH30	7	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.										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]		09/12/24	08:00	Michelle Gonzales		9-12-24	0600	Received on ice: <input checked="" type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gonzales		9-13-24	0220	[Signature]		9-13-24	0745												
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409100

Job Number: 01058-0007

Received: 9/13/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409100
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH31 0.5'	5
BH31 4'	6
BH31 10'	7
BH31 15'	8
BH31 20'	9
BH31 25'	10
BH31 29'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH31 0.5'	E409100-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 4'	E409100-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 10'	E409100-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 15'	E409100-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 20'	E409100-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 25'	E409100-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH31 29'	E409100-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 0.5'

E409100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
<i>Surrogate: Bromofluorobenzene</i>		90.4 %	70-130	09/13/24	09/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	09/13/24	09/16/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
<i>Surrogate: Bromofluorobenzene</i>		90.4 %	70-130	09/13/24	09/16/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	09/13/24	09/16/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>		76.4 %	50-200	09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 4'

E409100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	75.8 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:01:03AM
---	--	-----------------------------------

BH31 10'

E409100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	101 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	101 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	81.0 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 15'

E409100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0500	2	09/13/24	09/17/24	
Ethylbenzene	ND	0.0500	2	09/13/24	09/17/24	
Toluene	ND	0.0500	2	09/13/24	09/17/24	
o-Xylene	ND	0.0500	2	09/13/24	09/17/24	
p,m-Xylene	ND	0.100	2	09/13/24	09/17/24	
Total Xylenes	ND	0.0500	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.7 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.1 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.7 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.1 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	72.0 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 20'

E409100-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	68.1 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 25'

E409100-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0500	2	09/13/24	09/17/24	
Ethylbenzene	ND	0.0500	2	09/13/24	09/17/24	
Toluene	ND	0.0500	2	09/13/24	09/17/24	
o-Xylene	ND	0.0500	2	09/13/24	09/17/24	
p,m-Xylene	ND	0.100	2	09/13/24	09/17/24	
Total Xylenes	ND	0.0500	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.6 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.6 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	78.0 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:01:03AM

BH31 29'

E409100-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Benzene	ND	0.0500	2	09/13/24	09/17/24	
Ethylbenzene	ND	0.0500	2	09/13/24	09/17/24	
Toluene	ND	0.0500	2	09/13/24	09/17/24	
o-Xylene	ND	0.0500	2	09/13/24	09/17/24	
p,m-Xylene	ND	0.100	2	09/13/24	09/17/24	
Total Xylenes	ND	0.0500	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437080
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437087
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	74.7 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437101
Chloride	ND	200	10	09/13/24	09/13/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:01:03AM

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 (2437080-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2437080-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.02	0.0250	2.50		80.8	70-130			
Ethylbenzene	2.04	0.0250	2.50		81.6	70-130			
Toluene	2.17	0.0250	2.50		86.7	70-130			
o-Xylene	2.14	0.0250	2.50		85.7	70-130			
p,m-Xylene	4.31	0.0500	5.00		86.1	70-130			
Total Xylenes	6.45	0.0250	7.50		86.0	70-130			
Surrogate: Bromofluorobenzene	0.452		0.500		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

Matrix Spike (2437080-MS1) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.10	0.0250	2.50	ND	84.2	48-131			
Ethylbenzene	2.14	0.0250	2.50	ND	85.6	45-135			
Toluene	2.28	0.0250	2.50	ND	91.2	48-130			
o-Xylene	2.33	0.0250	2.50	ND	93.3	43-135			
p,m-Xylene	4.66	0.0500	5.00	ND	93.2	43-135			
Total Xylenes	6.99	0.0250	7.50	ND	93.2	43-135			
Surrogate: Bromofluorobenzene	0.473		0.500		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2437080-MSD1) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	2.14	0.0250	2.50	ND	85.7	48-131	1.77	23	
Ethylbenzene	2.17	0.0250	2.50	ND	86.7	45-135	1.32	27	
Toluene	2.31	0.0250	2.50	ND	92.3	48-130	1.16	24	
o-Xylene	2.31	0.0250	2.50	ND	92.2	43-135	1.12	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.4	43-135	0.841	27	
Total Xylenes	6.93	0.0250	7.50	ND	92.3	43-135	0.934	27	
Surrogate: Bromofluorobenzene	0.463		0.500		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:01:03AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437080-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2437080-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130			
Surrogate: Bromofluorobenzene	0.473		0.500		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2437080-MS2) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130			
Surrogate: Bromofluorobenzene	0.462		0.500		92.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2437080-MSD2) Source: E409100-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	2.92	20	
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:01:03AM

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 (2437087-BLK1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.3		50.0		78.6	50-200			

LCS (2437087-BS1) Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	200	25.0	250		80.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.7	50-200			

Matrix Spike (2437087-MS1) Source: E409099-05 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	205	25.0	250	ND	82.1	38-132			
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			

Matrix Spike Dup (2437087-MSD1) Source: E409099-05 Prepared: 09/13/24 Analyzed: 09/14/24

Diesel Range Organics (C10-C28)	206	25.0	250	ND	82.5	38-132	0.464	20	
Surrogate: n-Nonane	43.5		50.0		86.9	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:01:03AM

Anions by EPA 300.0/9056A

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 (2437101-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437101-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2437101-MS1)					Source: E409100-01		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	364	200	250	ND	145	80-120			M6
Matrix Spike Dup (2437101-MSD1)					Source: E409100-01		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	407	200	250	ND	163	80-120	11.2	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:01

- 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.



Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program	
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO# E409100		Job Number 01058-007		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										RCRA	
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502											
Phone: 432-305-6415				Email: jim.raley@devn.com											
Email: Devon-team@etechnv.com				WO: 21196155											
				Incident ID: nAPP2223636403											
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	TDGC TX	State	
														NM	CO
														UT	AZ
														TX	
														Remarks	
11:20	09.10.24	S	1	BH31	1	0.5'						X			
11:30	09.10.24	S	1	BH31	2	4'						X			
11:40	09.10.24	S	1	BH31	3	10'						X			
11:50	09.10.24	S	1	BH31	4	15'						X			
12:00	09.10.24	S	1	BH31	5	20'						X			
12:10	09.10.24	S	1	BH31	6	25'						X			
12:20	09.10.24	S	1	BH31	7	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.												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 09/12/24 Time 06:00												Received by: (Signature) <i>Michelle Gonzales</i> Date 9-12-24 Time 0600			
Relinquished by: (Signature) <i>Michelle Gonzales</i> Date 9-13-24 Time 0220												Received by: (Signature) <i>[Signature]</i> Date 9-13-24 Time 0745			
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 Analytical Laboratory

Printed: 9/13/2024 8:56:58AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409100
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:13	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409100		01058-007					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 8250	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: 21196155														
Incident ID: nAPP2223636403																		
Collected by: Edyte Konan				nAB1109656595														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:20	09.10.24	S	1	BH31	1	0.5'						X		Incident ID				
11:30	09.10.24	S	1	BH31	2	4'						X		Updated per				
11:40	09.10.24	S	1	BH31	3	10'						X		A. Byers				
11:50	09.10.24	S	1	BH31	4	15'						X		9/13/24 RAB				
12:00	09.10.24	S	1	BH31	5	20'						X						
12:10	09.10.24	S	1	BH31	6	25'						X						
12:20	09.10.24	S	1	BH31	7	29'						X						
09/13/2024																		
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										
<i>[Signature]</i>		09/12/24	06:00	<i>Michelle Gonzales</i>		9-12-24	06:00	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
<i>Michelle Gonzales</i>		9-13-24	02:20	<i>[Signature]</i>		9-13-24	07:45											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409101

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409101
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH32 0.5'	5
BH32 4'	6
BH32 10'	7
BH32 15'	8
BH32 20'	9
BH32 25'	10
BH32 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH32 0.5'	E409101-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 4'	E409101-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 10'	E409101-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 15'	E409101-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 20'	E409101-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 25'	E409101-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH32 29'	E409101-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:03:30AM

BH32 0.5'

E409101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>		73.9 %	50-200	09/13/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	190	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:03:30AM

BH32 4'

E409101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	88.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>	76.6 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	113	40.0	2	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:03:30AM
---	--	-----------------------------------

BH32 10'

E409101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
Surrogate: n-Nonane	75.6 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	108	40.0	2	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:03:30AM

BH32 15'

E409101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	76.1 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	115	40.0	2	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:03:30AM

BH32 20'

E409101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	67.9 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	114	40.0	2	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:03:30AM
---	--	-----------------------------------

BH32 25'

E409101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	70.6 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	117	40.0	2	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:03:30AM

BH32 29'

E409101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	69.4 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	106	40.0	2	09/13/24	09/13/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:03:30AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437081-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			

LCS (2437081-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	4.42	0.0250	5.00		88.4	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.18	0.0250	5.00		83.6	70-130			
p,m-Xylene	8.55	0.0500	10.0		85.5	70-130			
Total Xylenes	12.7	0.0250	15.0		84.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

Matrix Spike (2437081-MS1) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133			
Toluene	4.49	0.0250	5.00	ND	89.8	61-130			
o-Xylene	4.33	0.0250	5.00	ND	86.5	63-131			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	87.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

Matrix Spike Dup (2437081-MSD1) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	9.61	20	
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133	10.1	20	
Toluene	4.94	0.0250	5.00	ND	98.7	61-130	9.51	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	9.83	20	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	63-131	9.89	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.9	63-131	9.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:03:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437081-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS (2437081-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2437081-MS2) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2437081-MSD2) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.3	70-130	3.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:03:30AM

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 (2437086-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.1		50.0		76.2	50-200			

LCS (2437086-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	189	25.0	250		75.5	38-132			
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			

Matrix Spike (2437086-MS1)					Source: E409101-04		Prepared: 09/13/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	201	25.0	250	ND	80.3	38-132			
Surrogate: n-Nonane	41.2		50.0		82.5	50-200			

Matrix Spike Dup (2437086-MSD1)					Source: E409101-04		Prepared: 09/13/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.4	38-132	1.37	20	
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:03:30AM

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 (2437102-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437102-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2437102-MS1)					Source: E409101-03		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	366	40.0	250	108	103	80-120			
Matrix Spike Dup (2437102-MSD1)					Source: E409101-03		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	359	40.0	250	108	100	80-120	1.92	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:03

- 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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program		
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409101		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@dyn.com		Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX	GDOC	State	
Email: Devon-team@etechenv.com				WO: 21196155											NM	CO
Incident ID: nAPP2223636403																
Collected by: Edyte Konan																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks
12:30	09.10.24	S	1	BH32	1	0.5'							X			
12:40	09.10.24	S	1	BH32	2	4'							X			
12:50	09.10.24	S	1	BH32	3	10'							X			
13:00	09.10.24	S	1	BH32	4	15'							X			
13:10	09.10.24	S	1	BH32	5	20'							X			
13:20	09.10.24	S	1	BH32	6	25'							X			
13:30	09.10.24	S	1	BH32	7	29'							X			
09/12/2024																
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.										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: <input checked="" type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time									
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 Analytical Laboratory

Printed: 9/13/2024 9:00:08AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409101
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:14	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409101		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 GRC/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: 21196155														
Incident ID: nAPP2223636403				nAB10191050595														
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
12:30	09.10.24	S	1	BH32	1	0.5'						X		Incident ID updated per A. Byers 9/13/24 RAS				
12:40	09.10.24	S	1	BH32	2	4'						X						
12:50	09.10.24	S	1	BH32	3	10'						X						
13:00	09.10.24	S	1	BH32	4	15'						X						
13:10	09.10.24	S	1	BH32	5	20'						X						
13:20	09.10.24	S	1	BH32	6	25'						X						
13:30	09.10.24	S	1	BH32	7	29'						X						
09/12/2024																		
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.										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 09/12/24 Time 06:00										Received by: (Signature) <i>Michelle Gonzales</i> Date 9-12-24 Time 0600								
Relinquished by: (Signature) <i>Michelle Gonzales</i> Date 9-13-24 Time 0220										Received by: (Signature) <i>[Signature]</i> Date 9-13-24 Time 0745								
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409102

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409102
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH33 0.5'	5
BH33 4'	6
BH33 10'	7
BH33 15'	8
BH33 20'	9
BH33 25'	10
BH33 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH33 0.5'	E409102-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 4'	E409102-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 10'	E409102-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 15'	E409102-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 20'	E409102-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 25'	E409102-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH33 29'	E409102-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:04:59AM

BH33 0.5'

E409102-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/16/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/16/24	
Toluene	ND	0.0250	1	09/13/24	09/16/24	
o-Xylene	ND	0.0250	1	09/13/24	09/16/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/16/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.0 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.5 %	70-130	09/13/24	09/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
		72.8 %	50-200	09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	ND	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:04:59AM

BH33 4'

E409102-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/13/24	
<i>Surrogate: n-Nonane</i>						
	72.4 %	50-200		09/13/24	09/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	29.4	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:04:59AM
---	--	-----------------------------------

BH33 10'

E409102-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>						
	65.2 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:04:59AM

BH33 15'

E409102-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>						
	67.8 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	23.8	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:04:59AM
---	--	-----------------------------------

BH33 20'

E409102-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437081
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>						
	66.1 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2437102
Chloride	107	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:04:59AM

BH33 25'

E409102-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
<i>Surrogate: n-Nonane</i>						
	74.0 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:04:59AM
---	--	-----------------------------------

BH33 29'

E409102-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/14/24	
Surrogate: n-Nonane	73.8 %	50-200		09/13/24	09/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2437102	
Chloride	ND	200	10	09/13/24	09/14/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:04:59AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437081-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			

LCS (2437081-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	4.42	0.0250	5.00		88.4	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.18	0.0250	5.00		83.6	70-130			
p,m-Xylene	8.55	0.0500	10.0		85.5	70-130			
Total Xylenes	12.7	0.0250	15.0		84.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			

Matrix Spike (2437081-MS1) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	4.56	0.0250	5.00	ND	91.1	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133			
Toluene	4.49	0.0250	5.00	ND	89.8	61-130			
o-Xylene	4.33	0.0250	5.00	ND	86.5	63-131			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	87.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

Matrix Spike Dup (2437081-MSD1) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	5.02	0.0250	5.00	ND	100	54-133	9.61	20	
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	61-133	10.1	20	
Toluene	4.94	0.0250	5.00	ND	98.7	61-130	9.51	20	
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131	9.83	20	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	63-131	9.89	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.9	63-131	9.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:04:59AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437081-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

LCS (2437081-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2437081-MS2) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2437081-MSD2) Source: E409102-01 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.3	70-130	3.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:04:59AM

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 (2437086-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.1		50.0		76.2	50-200			

LCS (2437086-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Diesel Range Organics (C10-C28)	189	25.0	250		75.5	38-132			
Surrogate: n-Nonane	40.1		50.0		80.2	50-200			

Matrix Spike (2437086-MS1)					Source: E409101-04		Prepared: 09/13/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	201	25.0	250	ND	80.3	38-132			
Surrogate: n-Nonane	41.2		50.0		82.5	50-200			

Matrix Spike Dup (2437086-MSD1)					Source: E409101-04		Prepared: 09/13/24 Analyzed: 09/13/24		
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.4	38-132	1.37	20	
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:04:59AM

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 (2437102-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437102-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2437102-MS1)					Source: E409101-03		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	366	40.0	250	108	103	80-120			
Matrix Spike Dup (2437102-MSD1)					Source: E409101-03		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	359	40.0	250	108	100	80-120	1.92	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:04

- 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.



Project Information

Chain of Custody

Client: Devon Energy Production Co LP				Bill To				Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E409102		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@dmn.com												NM	CO	UT	AZ	TX		
mail: Devon-team@etechnv.com				WO: 21196155																		
				Incident ID: nAPP2223636403																		

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
13:40	09.10.24	S	1	BH33	1	0.5'						X		
13:50	09.10.24	S	1	BH33	2	4'						X		
14:00	09.10.24	S	1	BH33	3	10'						X		
14:10	09.10.24	S	1	BH33	4	15'						X		
14:20	09.10.24	S	1	BH33	5	20'						X		
14:30	09.10.24	S	1	BH33	6	25'						X		
14:40	09.10.24	S	1	BH33	7	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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	09/12/24	08:00	Michelle Gonzales	9-12-24	06:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzales	9-13-24	0220	<i>[Signature]</i>	9-13-24	0745	
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 Analytical Laboratory

Printed: 9/13/2024 9:03:02AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409102
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:16	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409102		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@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21196155														
Incident ID: APP2223636403																		
Collected by: Edyte Konan				NAB16191656595														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
13:40	09.10.24	S	1	BH33	1	0.5'						X		Incident ID updated				
13:50	09.10.24	S	1	BH33	2	4'						X		per A. Byers				
14:00	09.10.24	S	1	BH33	3	10'						X		9/13/24				
14:10	09.10.24	S	1	BH33	4	15'						X						
14:20	09.10.24	S	1	BH33	5	20'						X						
14:30	09.10.24	S	1	BH33	6	25'						X						
14:40	09.10.24	S	1	BH33	7	29'						X						
09/12/2024																		
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.										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										
		09/12/24	0600	Michelle Gonzales		9-12-24	0600	Received on ice: <input checked="" type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Michelle Gonzales		9-13-24	0220			9-13-24	0745											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409103

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409103
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH34 0.5'	5
BH34 4'	6
BH34 10'	7
BH34 15'	8
BH34 20'	9
BH34 25'	10
BH34 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH34 0.5'	E409103-01A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 4'	E409103-02A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 10'	E409103-03A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 15'	E409103-04A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 20'	E409103-05A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 25'	E409103-06A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH34 29'	E409103-07A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:07:21AM

BH34 0.5'

E409103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>						
		76.8 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437104
Chloride	55.2	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:07:21AM

BH34 4'

E409103-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>						
		80.7 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437104
Chloride	53.2	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:07:21AM

BH34 10'

E409103-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>		76.2 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	37.8	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:07:21AM

BH34 15'

E409103-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>	73.9 %	50-200		09/13/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	52.3	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:07:21AM

BH34 20'

E409103-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>		75.9 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	119	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:07:21AM
---	--	-----------------------------------

BH34 25'

E409103-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2437082
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>						
		79.8 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437104
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:07:21AM
---	--	-----------------------------------

BH34 29'

E409103-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/16/24	
<i>Surrogate: n-Nonane</i>						
		79.2 %	50-200	09/13/24	09/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	ND	200	10	09/13/24	09/14/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:07:21AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437082-BLK1)Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			

LCS (2437082-BS1)Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	4.63	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.46	0.0250	5.00		89.2	70-130			
Toluene	4.57	0.0250	5.00		91.5	70-130			
o-Xylene	4.46	0.0250	5.00		89.1	70-130			
p,m-Xylene	9.08	0.0500	10.0		90.8	70-130			
Total Xylenes	13.5	0.0250	15.0		90.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike (2437082-MS1)Source: E409104-03Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	5.96	0.0250	5.00	ND	119	54-133			
Ethylbenzene	5.71	0.0250	5.00	ND	114	61-133			
Toluene	5.87	0.0250	5.00	ND	117	61-130			
o-Xylene	5.73	0.0250	5.00	ND	115	63-131			
p,m-Xylene	11.6	0.0500	10.0	ND	116	63-131			
Total Xylenes	17.3	0.0250	15.0	ND	115	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

Matrix Spike Dup (2437082-MSD1)Source: E409104-03Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133	18.2	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	17.9	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	18.2	20	
o-Xylene	4.78	0.0250	5.00	ND	95.6	63-131	18.2	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	17.5	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	17.7	20	
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:07:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437082-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

LCS (2437082-BS2) Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2437082-MS2) Source: E409104-03 Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2437082-MSD2) Source: E409104-03 Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130	4.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:07:21AM

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 (2437085-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.6		50.0		73.2	50-200			

LCS (2437085-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	191	25.0	250		76.3	38-132			
Surrogate: n-Nonane	35.0		50.0		70.0	50-200			

Matrix Spike (2437085-MS1) Source: E409103-03 Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.0	38-132			
Surrogate: n-Nonane	37.4		50.0		74.8	50-200			

Matrix Spike Dup (2437085-MSD1) Source: E409103-03 Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	192	25.0	250	ND	76.7	38-132	4.19	20	
Surrogate: n-Nonane	33.8		50.0		67.7	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:07:21AM

Anions by EPA 300.0/9056A

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437104-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437104-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2437104-MS1)					Source: E409103-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	359	20.0	250	119	95.8	80-120			
Matrix Spike Dup (2437104-MSD1)					Source: E409103-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	374	20.0	250	119	102	80-120	4.19	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:07

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Refused to Imaging: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: Devon Energy Production Co LP					Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 409103		01058-007					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	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415					Email: jim.raley@dmn.com										NM	CO	UT	AZ	TX
mail: Devon-team@etechnv.com					WO: 21196155														
					Incident ID: nAPP2223636403														
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
9:00	09.09.24	S	1	BH34	1	0.5'							X						
9:10	09.09.24	S	1	BH34	2	4'							X						
9:20	09.09.24	S	1	BH34	3	10'							X						
9:30	09.09.24	S	1	BH34	4	15'							X						
9:40	09.09.24	S	1	BH34	5	20'							X						
9:50	09.09.24	S	1	BH34	6	25'							X						
10:00	09.09.24	S	1	BH34	7	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																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		09/12/24	06:00	Michelle Gonzales		9-12-24	06:00	Received on ice: (Y) N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gonzales		9-13-24	02:20	[Signature]		9-13-24	07:45												
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: 9/13/2024 9:05:28AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409103
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:18	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP					Bill To		Lab Use Only				TAT				EPA Program					
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E 409103		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@devn.com										NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WO: 21196155															
Incident ID: APP2223636403					NAB1619656595															
Collected by: Edyte Konan					Sample ID		Lab Number	Remarks												
Time Sampled	Date Sampled	Matrix	No. of Containers																	
9:00	09.09.24	S	1		BH34	1	0.5'						X			Incident ID updated per A. Byers 9/13/24 - EKH				
9:10	09.09.24	S	1		BH34	2	4'						X							
9:20	09.09.24	S	1		BH34	3	10'						X							
9:30	09.09.24	S	1		BH34	4	15'						X							
9:40	09.09.24	S	1		BH34	5	20'						X							
9:50	09.09.24	S	1		BH34	6	25'						X							
10:00	09.09.24	S	1		BH34	7	29'						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: FK																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
Michelle Gonzales		09/12/24	06:00	Michelle Gonzales		9-12-24	06:00	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____												
Michelle Gonzales		9-13-24	02:20	[Signature]		9-13-24	07:45													
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409104

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/13/25

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: 2/13/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409104
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH35 0.5'	5
BH35 4'	6
BH35 10'	7
BH35 15'	8
BH35 20'	9
BH35 25'	10
BH35 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	02/13/25 09:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH35 0.5'	E409104-01A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 4'	E409104-02A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 10'	E409104-03A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 15'	E409104-04A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 20'	E409104-05A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 25'	E409104-06A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH35 29'	E409104-07A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 2/13/2025 9:30:39AM
---	--	---

BH35 0.5'

E409104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>		84.4 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	ND	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 4'

E409104-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
		82.1 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	29.6	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 10'

E409104-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
		83.4 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	39.8	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 15'

E409104-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
		81.1 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	24.3	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 20'

E409104-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>		79.1 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	109	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 25'

E409104-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	84.9 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	115	100	5	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
2/13/2025 9:30:39AM

BH35 29'

E409104-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2437082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>						
	82.1 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437104	
Chloride	ND	200	10	09/13/24	09/14/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:30:39AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437082-BLK1)

Prepared: 09/13/24 Analyzed: 09/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130			

LCS (2437082-BS1)

Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	4.63	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.46	0.0250	5.00		89.2	70-130			
Toluene	4.57	0.0250	5.00		91.5	70-130			
o-Xylene	4.46	0.0250	5.00		89.1	70-130			
p,m-Xylene	9.08	0.0500	10.0		90.8	70-130			
Total Xylenes	13.5	0.0250	15.0		90.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			

Matrix Spike (2437082-MS1)

Source: E409104-03

Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	5.96	0.0250	5.00	ND	119	54-133			
Ethylbenzene	5.71	0.0250	5.00	ND	114	61-133			
Toluene	5.87	0.0250	5.00	ND	117	61-130			
o-Xylene	5.73	0.0250	5.00	ND	115	63-131			
p,m-Xylene	11.6	0.0500	10.0	ND	116	63-131			
Total Xylenes	17.3	0.0250	15.0	ND	115	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.09		8.00		101	70-130			

Matrix Spike Dup (2437082-MSD1)

Source: E409104-03

Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	4.97	0.0250	5.00	ND	99.4	54-133	18.2	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	17.9	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	18.2	20	
o-Xylene	4.78	0.0250	5.00	ND	95.6	63-131	18.2	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	17.5	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	17.7	20	
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:30:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437082-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

LCS (2437082-BS2) Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2437082-MS2) Source: E409104-03 Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2437082-MSD2) Source: E409104-03 Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.5	70-130	4.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:30:39AM

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 (2437085-BLK1) Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.6		50.0		73.2	50-200			

LCS (2437085-BS1) Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	191	25.0	250		76.3	38-132			
Surrogate: n-Nonane	35.0		50.0		70.0	50-200			

Matrix Spike (2437085-MS1) Source: E409103-03 Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.0	38-132			
Surrogate: n-Nonane	37.4		50.0		74.8	50-200			

Matrix Spike Dup (2437085-MSD1) Source: E409103-03 Prepared: 09/13/24 Analyzed: 09/16/24

Diesel Range Organics (C10-C28)	192	25.0	250	ND	76.7	38-132	4.19	20	
Surrogate: n-Nonane	33.8		50.0		67.7	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	2/13/2025 9:30:39AM

Anions by EPA 300.0/9056A

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 (2437104-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437104-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2437104-MS1)					Source: E409103-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	359	20.0	250	119	95.8	80-120			
Matrix Spike Dup (2437104-MSD1)					Source: E409103-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	374	20.0	250	119	102	80-120	4.19	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	02/13/25 09:30

- 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.



Client: Devon Energy Production Co LP				Bill To		Lab Use Only		TAT			EPA Program		
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		1D			CWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		Job Number		2D			SDWA		
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		E409104		3D			Standard		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		01088-0007		5 day TAT			RCRA		
Phone: 432-305-6415				Email: jim.raley@devn.com		Analysis and Method						State	
mail: Devon-team@etechnv.com				WO: 21196155								NM	
Incident ID: nAPP2223636403				Depth(ft.)		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
						Chloride 300.0		BGDOC NM		GDOC TX		Remarks	
Collected by: Edyte Konan				Sample ID		Lab Number							
Time Sampled	Date Sampled	Matrix	No. of Containers										
10:10	09.09.24	S	1	BH35		1		0.5'				X	
10:20	09.09.24	S	1	BH35		2		4'				X	
10:30	09.09.24	S	1	BH35		3		10'				X	
10:40	09.09.24	S	1	BH35		4		15'				X	
10:50	09.09.24	S	1	BH35		5		20'				X	
11:00	09.09.24	S	1	BH35		6		25'				X	
11:10	09.09.24	S	1	BH35		7		29'				X	
09/12/24													
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		Time		Received by: (Signature)		Date		Time		Lab Use Only	
[Signature]		09/12/24		06:00		Michelle Gonzales		9-12-24		0600		Received on ice: (Y) N	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3	
Michelle Gonzales		9-13-24		0220		[Signature]		9-13-24		0745			
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: 9/13/2024 9:07:51AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409104
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:19	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/19/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only		TAT				EPA Program			
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409104		01088-0007					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											
Email: Devon-team@etechnv.com				WO: 21196155											
Incident ID: nABP2223636403 NS 2-13-25				nAB1619656595											
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	State	
														NM	CO
														UT	AZ
														TX	
														Remarks	
10:10	09.09.24	S	1	BH35	1	0.5'						X		Corrected incident ID per client.	
10:20	09.09.24	S	1	BH35	2	4'						X		NS 2-13-25	
10:30	09.09.24	S	1	BH35	3	10'						X			
10:40	09.09.24	S	1	BH35	4	15'						X			
10:50	09.09.24	S	1	BH35	5	20'						X			
11:00	09.09.24	S	1	BH35	6	25'						X			
11:10	09.09.24	S	1	BH35	7	29'						X			
09/12/24															
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		Time		Received by: (Signature)		Date		Time		Lab Use Only			
[Signature]		09/12/24		06:00		Michelle Gonzales		9-12-24		0600		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1			
Michelle Gonzales		9.13.24		0220		[Signature]		9-13-24		0745		T2			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3			
												AVG Temp °C 4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



envirotech

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409105

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409105
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH36 - 0.5'	5
BH36 - 4'	6
BH36 - 10'	7
BH36 - 15'	8
BH36 - 20'	9
BH36 - 25'	10
BH36 - 29'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH36 - 0.5'	E409105-01A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 4'	E409105-02A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 10'	E409105-03A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 15'	E409105-04A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 20'	E409105-05A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 25'	E409105-06A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.
BH36 - 29'	E409105-07A	Soil	09/09/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 0.5'

E409105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: Bromofluorobenzene</i>		90.3 %	70-130	09/13/24	09/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/13/24	09/17/24	
<i>Surrogate: Toluene-d8</i>		97.2 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: Bromofluorobenzene</i>		90.3 %	70-130	09/13/24	09/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	09/13/24	09/17/24	
<i>Surrogate: Toluene-d8</i>		97.2 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>		91.5 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	41.7	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 4'

E409105-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	96.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	96.9 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	82.8 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	64.1	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/25/2024 11:09:24AM
---	--	-----------------------------------

BH36 - 10'
E409105-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.5 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	83.5 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	ND	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 15'

E409105-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	100 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	88.4 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	ND	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 20'

E409105-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	86.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	97.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	86.2 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	97.7 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	87.2 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	36.4	20.0	1	09/13/24	09/13/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 25'

E409105-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	89.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	89.4 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	ND	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:09:24AM

BH36 - 29'

E409105-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	90.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	90.1 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	105 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	114	20.0	1	09/13/24	09/14/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:09:24AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2437098-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.444		0.500		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2437098-BS1) Prepared: 09/13/24 Analyzed: 09/18/24

Benzene	2.10	0.0250	2.50		84.0	70-130			
Ethylbenzene	2.13	0.0250	2.50		85.4	70-130			
Toluene	2.28	0.0250	2.50		91.4	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130			
Total Xylenes	6.89	0.0250	7.50		91.9	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			

Matrix Spike (2437098-MS1) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/18/24

Benzene	2.11	0.0250	2.50	ND	84.5	48-131			
Ethylbenzene	2.16	0.0250	2.50	ND	86.5	45-135			
Toluene	2.29	0.0250	2.50	ND	91.6	48-130			
o-Xylene	2.30	0.0250	2.50	ND	91.9	43-135			
p,m-Xylene	4.61	0.0500	5.00	ND	92.1	43-135			
Total Xylenes	6.90	0.0250	7.50	ND	92.0	43-135			
Surrogate: Bromofluorobenzene	0.446		0.500		89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike Dup (2437098-MSD1) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	2.12	0.0250	2.50	ND	84.7	48-131	0.213	23	
Ethylbenzene	2.17	0.0250	2.50	ND	86.8	45-135	0.369	27	
Toluene	2.32	0.0250	2.50	ND	93.0	48-130	1.47	24	
o-Xylene	2.30	0.0250	2.50	ND	92.2	43-135	0.304	27	
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	0.304	27	
Total Xylenes	6.90	0.0250	7.50	ND	91.9	43-135	0.101	27	
Surrogate: Bromofluorobenzene	0.450		0.500		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:09:24AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437098-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.444		0.500		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2437098-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: Bromofluorobenzene	0.452		0.500		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike (2437098-MS2) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.1	70-130			
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2437098-MSD2) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.1	70-130	4.86	20	
Surrogate: Bromofluorobenzene	0.448		0.500		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:09:24AM

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 (2437084-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2437084-BS1) Prepared: 09/13/24 Analyzed: 09/17/24

Diesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2437084-MS1) Source: E409105-01 Prepared: 09/13/24 Analyzed: 09/18/24

Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.9	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike Dup (2437084-MSD1) Source: E409105-01 Prepared: 09/13/24 Analyzed: 09/18/24

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	27.9	20	R3
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:09:24AM

Anions by EPA 300.0/9056A

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 (2437105-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437105-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2437105-MS1)					Source: E409105-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	287	20.0	250	36.4	100	80-120			
Matrix Spike Dup (2437105-MSD1)					Source: E409105-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	285	20.0	250	36.4	99.5	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:09

- 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 17 of 19

Envirotech Analytical Laboratory

Printed: 9/13/2024 9:10:36AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409105
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:23	Logged In By:	Noe Soto
Email:	anna@ensolum.com	Due Date:	09/19/24 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: 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

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only		TAT				EPA Program							
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409105		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: 21196155															
Incident ID: APP2223635403				NAB1619656595															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks					
11:20	09.09.24	S	1	BH36	1	0.5'						X		incident NO updated per AByers. 9/13/24 RAY					
11:30	09.09.24	S	1	BH36	2	4'						X							
11:40	09.09.24	S	1	BH36	3	10'						X							
11:50	09.09.24	S	1	BH36	4	15'						X							
12:00	09.09.24	S	1	BH36	5	20'						X							
12:10	09.09.24	S	1	BH36	6	25'						X							
12:20	09.09.24	S	1	BH36	7	29'						X							
09/12/24																			
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		Time		Received by: (Signature)		Date		Time		Lab Use Only							
[Signature]		09/12/24		06:00		Michelle Gonzales		9-12-24		0600		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Michelle Gonzales		9-12-24		0220		[Signature]		9-13-24		0745									
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409138

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/24/24

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: 9/24/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409138
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH37 0.5'	5
BH37 4'	6
BH37 10'	7
BH37 15'	8
BH37 20'	9
BH37 25'	10
BH37 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/24/24 09:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH37 0.5'	E409138-01A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 4'	E409138-02A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 10'	E409138-03A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 15'	E409138-04A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 20'	E409138-05A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 25'	E409138-06A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH37 29'	E409138-07A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/24/2024 9:10:28AM
---	--	----------------------------------

BH37 0.5'

E409138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: 4-Bromochlorobenzene-PID	85.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
Surrogate: n-Nonane	88.0 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	ND	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:10:28AM

BH37 4'

E409138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.7 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	ND	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/24/2024 9:10:28AM
---	--	----------------------------------

BH37 10'

E409138-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
Surrogate: 4-Bromochlorobenzene-PID	84.3 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
Surrogate: n-Nonane	83.3 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	50.2	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:10:28AM

BH37 15'

E409138-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
<i>Surrogate: n-Nonane</i>						
	86.1 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	112	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:10:28AM

BH37 20'

E409138-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.1 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	81.5	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:10:28AM

BH37 25'

E409138-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.7 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
<i>Surrogate: n-Nonane</i>						
	84.5 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	44.3	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:10:28AM

BH37 29'

E409138-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.5 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/21/24	
<i>Surrogate: n-Nonane</i>						
	86.1 %	50-200		09/18/24	09/21/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	38.3	20.0	1	09/18/24	09/18/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:10:28AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

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	6.94		8.00		86.7	70-130			

LCS (2438056-BS1) Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.72	0.0250	5.00		94.4	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

Matrix Spike (2438056-MS1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.60	0.0250	5.00	ND	92.0	54-133			
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133			
Toluene	4.59	0.0250	5.00	ND	91.8	61-130			
o-Xylene	4.48	0.0250	5.00	ND	89.6	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike Dup (2438056-MSD1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.46	0.0250	5.00	ND	89.1	54-133	3.20	20	
Ethylbenzene	4.39	0.0250	5.00	ND	87.8	61-133	2.62	20	
Toluene	4.45	0.0250	5.00	ND	89.0	61-130	3.09	20	
o-Xylene	4.36	0.0250	5.00	ND	87.1	63-131	2.86	20	
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131	2.70	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.5	63-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:10:28AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2438056-BS2) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	38.1	20.0	50.0		76.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

Matrix Spike (2438056-MS2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2438056-MSD2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.2	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:10:28AM

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 (2438072-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.2	50-200			

LCS (2438072-BS1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	186	25.0	250		74.2	38-132			
Surrogate: n-Nonane	46.3		50.0		92.7	50-200			

LCS Dup (2438072-BSD1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	192	25.0	250		76.9	38-132	3.51	20	
Surrogate: n-Nonane	47.0		50.0		94.1	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:10:28AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438061-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438061-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2438061-MS1)					Source: E409138-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	301	20.0	250	50.2	100	80-120			
Matrix Spike Dup (2438061-MSD1)					Source: E409138-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	311	20.0	250	50.2	104	80-120	3.27	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/24/24 09:10

- 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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 409138		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: 21196155														
Incident ID: nAPP2223636403																		
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				
12:30	09.11.24	S	1	BH37	1	0.5'						X						
12:40	09.11.24	S	1	BH37	2	4'						X						
12:50	09.11.24	S	1	BH37	3	10'						X						
13:00	09.11.24	S	1	BH37	4	15'						X						
13:10	09.11.24	S	1	BH37	5	20'						X						
13:20	09.11.24	S	1	BH37	6	25'						X						
13:30	09.11.24	S	1	BH37	7	29'						X						
09/13/2024																		
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: <u>JK</u>																		
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<u>[Signature]</u>		09/13/24	14:30	<u>Michelle Gonzales</u>		9-13-24	1430	Received on ice: <u>Y</u> / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
<u>Michelle Gonzales</u>		9-13-24	1700	<u>[Signature]</u>		9-13-24	7:30											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Envirotech Analytical Laboratory

Printed: 9/18/2024 12:40:45PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409138
Phone:	(575) 748-0176	Date Logged In:	09/18/24 07:53	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program		
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409138		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: 575-885-7502												
Phone: 432-305-6415				Email: jlm.raley@devn.com												
Email: Devon-team@etechnv.com				WO: 21196155												
Incident ID: APP2223636403				NAB161965595												
Collected by: Edyte Konan																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRG/DRO/DRO by 8021	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDGC TX	Remarks		
12:30	09.11.24	S	1	BH37	1	0.5'						X		Changed		
12:40	09.11.24	S	1	BH37	2	4'						X		incident #		
12:50	09.11.24	S	1	BH37	3	10'						X		per client		
13:00	09.11.24	S	1	BH37	4	15'						X		9/18/24 cm		
13:10	09.11.24	S	1	BH37	5	20'						X				
13:20	09.11.24	S	1	BH37	6	25'						X				
13:30	09.11.24	S	1	BH37	7	29'						X				
09/13/2024																
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 5 °C on subsequent days.																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
<i>[Signature]</i>		09/13/24	14:30	Michelle Gonzales		9-13-24	1430	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____								
Michelle Gonzales		9-13-24	1700	<i>[Signature]</i>		9-18-24	7:30									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409139

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/24/24

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: 9/24/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409139
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH38 0.5'	5
BH38 4'	6
BH38 10'	7
BH38 15'	8
BH38 20'	9
BH38 25'	10
BH38 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/24/24 09:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH38 0.5'	E409139-01A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 4'	E409139-02A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 10'	E409139-03A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 15'	E409139-04A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 20'	E409139-05A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 25'	E409139-06A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.
BH38 29'	E409139-07A	Soil	09/11/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 0.5'

E409139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.1 %	70-130	09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>		75.7 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	ND	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 4'

E409139-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.1 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	82.9 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	ND	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/24/2024 9:12:30AM
---	--	----------------------------------

BH38 10'

E409139-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.4 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	116	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 15'

E409139-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/19/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/19/24	
Toluene	ND	0.0250	1	09/18/24	09/19/24	
o-Xylene	ND	0.0250	1	09/18/24	09/19/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/19/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.5 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		09/18/24	09/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	85.5 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	135	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 20'

E409139-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.0 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.7 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	82.7 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	112	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 25'

E409139-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438056
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438072
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	82.4 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2438061
Chloride	45.2	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/24/2024 9:12:30AM

BH38 29'

E409139-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	86.3 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.5 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438072	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>	85.5 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2438061	
Chloride	47.6	20.0	1	09/18/24	09/19/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:12:30AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

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	6.94		8.00		86.7	70-130			

LCS (2438056-BS1) Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.72	0.0250	5.00		94.4	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

Matrix Spike (2438056-MS1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.60	0.0250	5.00	ND	92.0	54-133			
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133			
Toluene	4.59	0.0250	5.00	ND	91.8	61-130			
o-Xylene	4.48	0.0250	5.00	ND	89.6	63-131			
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131			
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike Dup (2438056-MSD1) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Benzene	4.46	0.0250	5.00	ND	89.1	54-133	3.20	20	
Ethylbenzene	4.39	0.0250	5.00	ND	87.8	61-133	2.62	20	
Toluene	4.45	0.0250	5.00	ND	89.0	61-130	3.09	20	
o-Xylene	4.36	0.0250	5.00	ND	87.1	63-131	2.86	20	
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131	2.70	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.5	63-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			

QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:12:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438056-BLK1) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

LCS (2438056-BS2) Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	38.1	20.0	50.0		76.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

Matrix Spike (2438056-MS2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2438056-MSD2) Source: E409138-07 Prepared: 09/18/24 Analyzed: 09/19/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.2	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:12:30AM

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 (2438072-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.2	50-200			

LCS (2438072-BS1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	186	25.0	250		74.2	38-132			
Surrogate: n-Nonane	46.3		50.0		92.7	50-200			

LCS Dup (2438072-BSD1) Prepared: 09/18/24 Analyzed: 09/21/24

Diesel Range Organics (C10-C28)	192	25.0	250		76.9	38-132	3.51	20	
Surrogate: n-Nonane	47.0		50.0		94.1	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/24/2024 9:12:30AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438061-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438061-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2438061-MS1)					Source: E409138-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	301	20.0	250	50.2	100	80-120			
Matrix Spike Dup (2438061-MSD1)					Source: E409138-03		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	311	20.0	250	50.2	104	80-120	3.27	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/24/24 09:12

- 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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409139		0058-0057		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		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX	State						
Phone: 432-305-6415				Email: jim.raley@devn.com										NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com				WO: 21196155																
				Incident ID: nAPP2223636403																
Collected by: Edyte Konan																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks						
13:40	09.11.24	S	1	BH38	1	0.5'						X								
13:50	09.11.24	S	1	BH38	2	4'						X								
14:00	09.11.24	S	1	BH38	3	10'						X								
14:10	09.11.24	S	1	BH38	4	15'						X								
14:20	09.11.24	S	1	BH38	5	20'						X								
14:30	09.11.24	S	1	BH38	6	25'						X								
14:40	09.11.24	S	1	BH38	7	29'						X								
09/13/24																				
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>		09/13/24		14:30		Michelle Gonzales		9-13-24		1430		Received on ice: <input checked="" type="radio"/> N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____								
Michelle Gonzales		9-13-24		1700		<i>[Signature]</i>		9-18-24		7:30										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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

Envirotech Analytical Laboratory

Printed: 9/18/2024 12:43:24PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409139
Phone:	(575) 748-0176	Date Logged In:	09/18/24 07:55	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To				Lab Use Only				TAT				EPA Program			
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO# E409139				Job Number 01058-0057				CWA SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.								1D 2D 3D				Standard			
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220								5 day TAT				RCRA			
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502															
Phone: 432-305-6415				Email: jlm.raley@dvn.com															
Email: Devon-team@etechnv.com				WO: 21196155															
Incident ID: nAPP2223636403				NAB101905659															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORSO by 8015	BITEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDGC TX	State					
														NM	CO	UT	AZ	TX	
														Remarks					
13:40	09.11.24	S	1	BH38	1	0.5'						X		Changed					
13:50	09.11.24	S	1	BH38	2	4'						X		incident #					
14:00	09.11.24	S	1	BH38	3	10'						X		per client					
14:10	09.11.24	S	1	BH38	4	15'						X		9/18/24 cm					
14:20	09.11.24	S	1	BH38	5	20'						X							
14:30	09.11.24	S	1	BH38	6	25'						X							
14:40	09.11.24	S	1	BH38	7	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 for: <u>XX</u>																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<u>[Signature]</u>		09/13/24		14:30		<u>Michelle Gonzales</u>		9-13-24		1430		Received on Ice: <u>(Y)</u> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
<u>Michelle Gonzales</u>		9-13-24		1700		<u>Carli Man</u>		9-18-24		7:30									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		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 CDC. 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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409140

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/23/24

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: 9/23/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409140
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH39 0.5'	5
BH39 4'	6
BH39 10'	7
BH39 15'	8
BH39 20'	9
BH39 25'	10
BH39 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH39 0.5'	E409140-01A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 4'	E409140-02A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 10'	E409140-03A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 15'	E409140-04A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 20'	E409140-05A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 25'	E409140-06A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH39 29'	E409140-07A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 1:51:28PM
---	--	----------------------------------

BH39 0.5'

E409140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	99.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	ND	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:51:28PM

BH39 4'

E409140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.3 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.4 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>	89.7 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	73.1	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 1:51:28PM
---	--	----------------------------------

BH39 10'

E409140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	76.3	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:51:28PM

BH39 15'

E409140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.3 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>	104 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	73.6	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 1:51:28PM
---	--	----------------------------------

BH39 20'

E409140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	92.1 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	178	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 1:51:28PM
---	--	----------------------------------

BH39 25'

E409140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
Surrogate: n-Nonane	95.2 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	34.0	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:51:28PM

BH39 29'

E409140-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	42.4	20.0	1	09/18/24	09/19/24	



Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:51:28PM

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 (2438057-BLK1)Prepared: 09/18/24 Analyzed: 09/20/24

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	7.74		8.00		96.8	70-130			

LCS (2438057-BS1)Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.26	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	7.75		8.00		96.9	70-130			

Matrix Spike (2438057-MS1)Source: E409140-05Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.40	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.35	0.0250	5.00	ND	107	61-133			
Toluene	5.43	0.0250	5.00	ND	109	61-130			
o-Xylene	5.37	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

Matrix Spike Dup (2438057-MSD1)Source: E409140-05Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.35	0.0250	5.00	ND	107	54-133	0.922	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	0.810	20	
Toluene	5.38	0.0250	5.00	ND	108	61-130	0.938	20	
o-Xylene	5.32	0.0250	5.00	ND	106	63-131	0.979	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	0.670	20	
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	0.772	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:51:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438057-BLK1) Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

LCS (2438057-BS2) Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2438057-MS2) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2438057-MSD2) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130	0.144	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:51:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438073-BLK1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			

LCS (2438073-BS1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	184	25.0	250		73.6	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			

LCS Dup (2438073-BSD1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	189	25.0	250		75.6	38-132	2.70	20	
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:51:28PM

Anions by EPA 300.0/9056A

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 (2438064-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438064-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2438064-MS1)					Source: E409140-01		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	282	20.0	250	ND	113	80-120			
Matrix Spike Dup (2438064-MSD1)					Source: E409140-01		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	283	20.0	250	ND	113	80-120	0.158	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 13:51

- 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: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409140		N058-0007					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/CRO 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@etechnv.com				WO: 21196155														
				Incident ID: nAPP2223636403														
Collected by: Edyte Konan																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
8:00	09.12.24	S	1	BH39	1	0.5'						X						
8:10	09.12.24	S	1	BH39	2	4'						X						
8:20	09.12.24	S	1	BH39	3	10'						X						
8:30	09.12.24	S	1	BH39	4	15'						X						
8:40	09.12.24	S	1	BH39	5	20'						X						
8:50	09.12.24	S	1	BH39	6	25'						X						
9:00	09.12.24	S	1	BH39	7	29'						X						
09/13/2024																		
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										
<i>[Signature]</i>		09/19/24	14:30	Michelle Gonzales		9-13-24	1430	Received on Ice: <input checked="" type="radio"/> Y / <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____										
Michelle Gonzales		9-13-24	1700	Cuthman		9-18-24	7:30											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Envirotech Analytical Laboratory

Printed: 9/18/2024 1:06:00PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409140
Phone:	(575) 748-0176	Date Logged In:	09/18/24 07:57	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program					
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		F409140		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	GRD/DSO/DRD by 8015	BTX by 8021	VOC by 8240	Metals 6010	Chloride 3000	BDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jlm.raley@devn.com											NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21196155															
Incident ID: nAPP2223636403				NAB1619656595															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks					
8:00	09.12.24	S	1	BH39	1	0.5'							X	Changed					
8:10	09.12.24	S	1	BH39	2	4'							X	Incident #					
8:20	09.12.24	S	1	BH39	3	10'							X	Per Client					
8:30	09.12.24	S	1	BH39	4	15'							X	9/18/24 cm					
8:40	09.12.24	S	1	BH39	5	20'							X						
8:50	09.12.24	S	1	BH39	6	25'							X						
9:00	09.12.24	S	1	BH39	7	29'							X						
09/13/2024																			
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 5 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		09/13/24	14:30	Michelle Gonzales		9-13-24	1430	Received on Ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
Michelle Gonzales		9-13-24	1700	Cuthman		9-18-24	7:30												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409141

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/23/24

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: 9/23/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409141
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH40 0.5'	5
BH40 4'	6
BH40 10'	7
BH40 15'	8
BH40 20'	9
BH40 25'	10
BH40 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 13:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH40 0.5'	E409141-01A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 4'	E409141-02A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 10'	E409141-03A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 15'	E409141-04A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 20'	E409141-05A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 25'	E409141-06A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH40 29'	E409141-07A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 1:54:54PM
---	--	---

BH40 0.5'

E409141-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>		91.8 %	50-200	09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	ND	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 4'

E409141-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	176	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 10'

E409141-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	92.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	184	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 15'

E409141-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	188	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 20'

E409141-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	90.9 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	135	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 25'

E409141-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2438057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.1 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438073	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>	94.6 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2438064	
Chloride	181	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 1:54:54PM

BH40 29'

E409141-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Benzene	ND	0.0250	1	09/18/24	09/20/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/20/24	
Toluene	ND	0.0250	1	09/18/24	09/20/24	
o-Xylene	ND	0.0250	1	09/18/24	09/20/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/20/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2438057
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		09/18/24	09/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2438073
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/22/24	
<i>Surrogate: n-Nonane</i>						
	89.1 %	50-200		09/18/24	09/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2438064
Chloride	35.3	20.0	1	09/18/24	09/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:54:54PM

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 (2438057-BLK1) Prepared: 09/18/24 Analyzed: 09/20/24

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	7.74		8.00		96.8	70-130			

LCS (2438057-BS1) Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.26	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	7.75		8.00		96.9	70-130			

Matrix Spike (2438057-MS1) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.40	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.35	0.0250	5.00	ND	107	61-133			
Toluene	5.43	0.0250	5.00	ND	109	61-130			
o-Xylene	5.37	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.2	0.0250	15.0	ND	108	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

Matrix Spike Dup (2438057-MSD1) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Benzene	5.35	0.0250	5.00	ND	107	54-133	0.922	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	0.810	20	
Toluene	5.38	0.0250	5.00	ND	108	61-130	0.938	20	
o-Xylene	5.32	0.0250	5.00	ND	106	63-131	0.979	20	
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131	0.670	20	
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	0.772	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:54:54PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438057-BLK1) Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

LCS (2438057-BS2) Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0		94.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2438057-MS2) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2438057-MSD2) Source: E409140-05 Prepared: 09/18/24 Analyzed: 09/20/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130	0.144	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:54:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438073-BLK1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			

LCS (2438073-BS1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	184	25.0	250		73.6	38-132			
Surrogate: n-Nonane	50.1		50.0		100	50-200			

LCS Dup (2438073-BSD1) Prepared: 09/18/24 Analyzed: 09/22/24

Diesel Range Organics (C10-C28)	189	25.0	250		75.6	38-132	2.70	20	
Surrogate: n-Nonane	49.2		50.0		98.4	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 1:54:54PM

Anions by EPA 300.0/9056A

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 (2438064-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438064-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2438064-MS1)					Source: E409140-01		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	282	20.0	250	ND	113	80-120			
Matrix Spike Dup (2438064-MSD1)					Source: E409140-01		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	283	20.0	250	ND	113	80-120	0.158	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 13:54

- 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: Devon Energy Production Co LP				Bill To				Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jlm Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E 409141		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: 432-305-6415				Email: jlm.raley@devn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21196155																
Incident ID: nAPP2223636403																				
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 3000	BGDOC NM	GDOC TX	Remarks						
9:10	09.12.24	S	1	BH40	1	0.5'						X								
9:20	09.12.24	S	1	BH40	2	4'						X								
9:30	09.12.24	S	1	BH40	3	10'						X								
9:40	09.12.24	S	1	BH40	4	15'						X								
9:50	09.12.24	S	1	BH40	5	20'						X								
10:00	09.12.24	S	1	BH40	6	25'						X								
10:10	09.12.24	S	1	BH40	7	29'						X								
09/13/2024																				
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												
<i>[Signature]</i>		09/13/24	14:30	Michelle Gonzales		9-13-24	1430	Received on ice: <input checked="" type="checkbox"/> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____												
Michelle Gonzales		9-13-24	1700	Cathy Man		9-18-24	7:30													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Envirotech Analytical Laboratory

Printed: 9/18/2024 1:07:31PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409141
Phone:	(575) 748-0176	Date Logged In:	09/18/24 07:58	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program			
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 409141		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													
Phone: 432-305-6415				Email: jlm.raley@devn.com												State	
Email: Devon-team@etechnv.com				WO: 21196155												NM CO UT AZ TX	
				Incident ID: nAPP2223636403-													
				NAB16191656595													
Collected by: Edyte Konan																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GC/MS/MS by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDGC TX	Remarks			
9:10	09.12.24	S	1	BH40	1	0.5'						X		Changed			
9:20	09.12.24	S	1	BH40	2	4'						X		incident #			
9:30	09.12.24	S	1	BH40	3	10'						X		per client			
9:40	09.12.24	S	1	BH40	4	15'						X		9/18/24 CM			
9:50	09.12.24	S	1	BH40	5	20'						X					
10:00	09.12.24	S	1	BH40	6	25'						X					
10:10	09.12.24	S	1	BH40	7	29'						X					
09/13/2024																	
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: <u>JK</u>																	
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
<u>[Signature]</u>		09/13/24	14:30	<u>Michelle Gonzales</u>		9-13-24	1430	Received on ice: <input checked="" type="checkbox"/> N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
<u>Michelle Gonzales</u>		9-13-24	1700	<u>Carla Man</u>		9-18-24	7:30										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sl - 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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409142

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/23/24

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: 9/23/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409142
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH41 0.5'	5
BH41 4'	6
BH41 10'	7
BH41 15'	8
BH41 20'	9
BH41 25'	10
BH41 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 15:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH41 0.5'	E409142-01A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 4'	E409142-02A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 10'	E409142-03A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 15'	E409142-04A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 20'	E409142-05A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 25'	E409142-06A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH41 29'	E409142-07A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 3:25:55PM
---	--	----------------------------------

BH41 0.5'

E409142-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	99.4 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	ND	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 4'

E409142-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	39.8	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 10'

E409142-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438058
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438058
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.3 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438071
Chloride	40.7	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 15'

E409142-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>		94.8 %	50-200	09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	187	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 20'

E409142-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	94.8	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 25'

E409142-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>90.7 %</i>	<i>70-130</i>		<i>09/18/24</i>	<i>09/21/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.4 %</i>	<i>70-130</i>		<i>09/18/24</i>	<i>09/21/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>	<i>98.0 %</i>	<i>50-200</i>		<i>09/18/24</i>	<i>09/20/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	114	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:25:55PM

BH41 29'

E409142-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.9 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.3 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>	88.3 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	106	20.0	1	09/18/24	09/18/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:25:55PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438058-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

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	7.25		8.00		90.6	70-130			

LCS (2438058-BS1) Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.45	0.0250	5.00		89.1	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.2	70-130			
Toluene	4.55	0.0250	5.00		90.9	70-130			
o-Xylene	4.51	0.0250	5.00		90.2	70-130			
p,m-Xylene	9.16	0.0500	10.0		91.6	70-130			
Total Xylenes	13.7	0.0250	15.0		91.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike (2438058-MS1) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.52	0.0250	5.00	ND	90.4	54-133			
Ethylbenzene	4.57	0.0250	5.00	ND	91.5	61-133			
Toluene	4.61	0.0250	5.00	ND	92.2	61-130			
o-Xylene	4.58	0.0250	5.00	ND	91.6	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

Matrix Spike Dup (2438058-MSD1) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.56	0.0250	5.00	ND	91.3	54-133	0.976	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	1.25	20	
Toluene	4.67	0.0250	5.00	ND	93.4	61-130	1.27	20	
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131	1.51	20	
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131	0.955	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131	1.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:25:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438058-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

LCS (2438058-BS2) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike (2438058-MS2) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	36.8	20.0	50.0	ND	73.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2438058-MSD2) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	10.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:25:55PM

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 (2438074-BLK1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

LCS (2438074-BS1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	188	25.0	250		75.0	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS Dup (2438074-BSD1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	197	25.0	250		78.7	38-132	4.75	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:25:55PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438071-BLK1)						Prepared: 09/18/24 Analyzed: 09/18/24			
Chloride	ND	20.0							
LCS (2438071-BS1)						Prepared: 09/18/24 Analyzed: 09/18/24			
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438071-MS1)				Source: E409142-02		Prepared: 09/18/24 Analyzed: 09/18/24			
Chloride	284	20.0	250	39.8	97.5	80-120			
Matrix Spike Dup (2438071-MSD1)				Source: E409142-02		Prepared: 09/18/24 Analyzed: 09/18/24			
Chloride	289	20.0	250	39.8	99.6	80-120	1.77	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 15:25

- 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: Devon Energy Production Co LP				Bill To				Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.				E409142		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/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	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: 21196155																
Incident ID: nAPP2223636403																				
Collected by: Edyte Konan																				
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 3000	BGDOC NM	GDOC TX	Remarks						
10:20	09.12.24	S	1	BH41	1	0.5'						X								
10:30	09.12.24	S	1	BH41	2	4'						X								
10:40	09.12.24	S	1	BH41	3	10'						X								
10:50	09.12.24	S	1	BH41	4	15'						X								
11:00	09.12.24	S	1	BH41	5	20'						X								
11:10	09.12.24	S	1	BH41	6	25'						X								
11:20	09.12.24	S	1	BH41	7	29'						X								
0311312024																				
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>IK</u>																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
<u>[Signature]</u>		03/11/24	14:30	<u>Michelle Gonzales</u>		9-13-24	1430	Received on ice: <u>(Y)</u> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____												
<u>Michelle Gonzales</u>		9-13-24	1700	<u>Chith Man</u>		9-18-24	7:30													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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

Envirotech Analytical Laboratory

Printed: 9/18/2024 1:09:49PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409142
Phone:	(575) 748-0176	Date Logged In:	09/18/24 08:00	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To				Lab Use Only				TAT				EPA Program					
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO# E409142				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: 21196155																	
				Incident ID: APP2223636403																	
Collected by: Edyte Konan				NAB1619656595																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/DISO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300 0		BGDOC NM	GDGC TX	State					Remarks	
																NM	CO	UT	AZ	TX	
10:20	09.12.24	S	1	BH41	1	0.5'							X			X					Changed
10:30	09.12.24	S	1	BH41	2	4'							X			X					Incident #
10:40	09.12.24	S	1	BH41	3	10'							X			X					Per Client
10:50	09.12.24	S	1	BH41	4	15'							X			X					9/18/24
11:00	09.12.24	S	1	BH41	5	20'							X			X					CM
11:10	09.12.24	S	1	BH41	6	25'							X			X					
11:20	09.12.24	S	1	BH41	7	29'							X			X					
0911312024																					
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]		09/13/24		14:30		Michelle Gonzales		9-13-24		1430		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
Michelle Gonzales		9-13-24		1700		[Signature]		9-18-24		7:30											
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

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409143

Job Number: 01058-0007

Received: 9/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/23/24

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: 9/23/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409143
Date Received: 9/18/2024 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2024 7:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH42 0.5'	5
BH42 4'	6
BH42 10'	7
BH42 15'	8
BH42 20'	9
BH42 25'	10
BH42 29'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 15:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH42 0.5'	E409143-01A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 4'	E409143-02A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 10'	E409143-03A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 15'	E409143-04A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 20'	E409143-05A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 25'	E409143-06A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.
BH42 29'	E409143-07A	Soil	09/12/24	09/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 0.5'

E409143-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>		98.5 %	50-200	09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	22.1	20.0	1	09/18/24	09/18/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 4'

E409143-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.0 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.4 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>	99.9 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	191	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 10'

E409143-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438058
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2438058
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2438074
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	88.3 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2438071
Chloride	35.3	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 15'

E409143-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	71.5	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 20'

E409143-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	98.2 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	149	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/23/2024 3:19:42PM

BH42 25'

E409143-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	184	20.0	1	09/18/24	09/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 9/23/2024 3:19:42PM
---	--	----------------------------------

BH42 29'

E409143-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Benzene	ND	0.0250	1	09/18/24	09/21/24	
Ethylbenzene	ND	0.0250	1	09/18/24	09/21/24	
Toluene	ND	0.0250	1	09/18/24	09/21/24	
o-Xylene	ND	0.0250	1	09/18/24	09/21/24	
p,m-Xylene	ND	0.0500	1	09/18/24	09/21/24	
Total Xylenes	ND	0.0250	1	09/18/24	09/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2438058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/24	09/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.3 %	70-130		09/18/24	09/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2438074	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/24	09/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/24	09/20/24	
Surrogate: n-Nonane	95.2 %	50-200		09/18/24	09/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2438071	
Chloride	113	20.0	1	09/18/24	09/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:19:42PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2438058-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

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	7.25		8.00		90.6	70-130			

LCS (2438058-BS1) Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.45	0.0250	5.00		89.1	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.2	70-130			
Toluene	4.55	0.0250	5.00		90.9	70-130			
o-Xylene	4.51	0.0250	5.00		90.2	70-130			
p,m-Xylene	9.16	0.0500	10.0		91.6	70-130			
Total Xylenes	13.7	0.0250	15.0		91.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike (2438058-MS1) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.52	0.0250	5.00	ND	90.4	54-133			
Ethylbenzene	4.57	0.0250	5.00	ND	91.5	61-133			
Toluene	4.61	0.0250	5.00	ND	92.2	61-130			
o-Xylene	4.58	0.0250	5.00	ND	91.6	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			

Matrix Spike Dup (2438058-MSD1) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Benzene	4.56	0.0250	5.00	ND	91.3	54-133	0.976	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	1.25	20	
Toluene	4.67	0.0250	5.00	ND	93.4	61-130	1.27	20	
o-Xylene	4.65	0.0250	5.00	ND	93.0	63-131	1.51	20	
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131	0.955	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131	1.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:19:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438058-BLK1) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

LCS (2438058-BS2) Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike (2438058-MS2) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	36.8	20.0	50.0	ND	73.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2438058-MSD2) Source: E409142-06 Prepared: 09/18/24 Analyzed: 09/21/24

Gasoline Range Organics (C6-C10)	40.9	20.0	50.0	ND	81.8	70-130	10.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:19:42PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2438074-BLK1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

LCS (2438074-BS1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	188	25.0	250		75.0	38-132			
Surrogate: n-Nonane	51.7		50.0		103	50-200			

LCS Dup (2438074-BSD1) Prepared: 09/18/24 Analyzed: 09/20/24

Diesel Range Organics (C10-C28)	197	25.0	250		78.7	38-132	4.75	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/23/2024 3:19:42PM

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 (2438071-BLK1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	ND	20.0							
LCS (2438071-BS1)					Prepared: 09/18/24 Analyzed: 09/18/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2438071-MS1)					Source: E409142-02		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	284	20.0	250	39.8	97.5	80-120			
Matrix Spike Dup (2438071-MSD1)					Source: E409142-02		Prepared: 09/18/24 Analyzed: 09/18/24		
Chloride	289	20.0	250	39.8	99.6	80-120	1.77	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/23/24 15:19

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

Page 1 of 1

5409143

Client: Devon Energy Production Co LP Project: Barbados State #001 SWD Project Manager: Anna Byers Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 432-305-6415 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@dm.com WO: 21196155 Incident ID: nAPP2223636403				Lab WO# <u>5409143</u> Job Number <u>01058-0007</u>				1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input type="checkbox"/> 5 day TAT				CWA <input type="checkbox"/> SDWA <input type="checkbox"/>	
				Analysis and Method										RCRA <input type="checkbox"/>			
														State			
														NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>			
				Remarks													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GDO/DOO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	GDOC TX				
11:30	09.12.24	S	1	BH42	1	0.5'						X					
11:40	09.12.24	S	1	BH42	2	4'						X					
11:50	09.12.24	S	1	BH42	3	10'						X					
12:00	09.12.24	S	1	BH42	4	15'						X					
12:10	09.12.24	S	1	BH42	5	20'						X					
12:20	09.12.24	S	1	BH42	6	25'						X					
12:30	09.12.24	S	1	BH42	7	29'						X					
<div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;"> 09/13/2024 </div>																	
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) <u>[Signature]</u> Date <u>09/13/24</u> Time <u>14:30</u> Received by: (Signature) <u>Michelle Gonzales</u> Date <u>9-13-24</u> Time <u>1430</u>																	
Relinquished by: (Signature) <u>Michelle Gonzales</u> Date <u>9-13-24</u> Time <u>1700</u> Received by: (Signature) <u>[Signature]</u> Date <u>9-18-24</u> Time <u>1:30</u>																	
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

Envirotech Analytical Laboratory

Printed: 9/18/2024 1:11:10PM

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:	Devon Energy - Carlsbad	Date Received:	09/18/24 07:30	Work Order ID:	E409143
Phone:	(575) 748-0176	Date Logged In:	09/18/24 08:01	Logged In By:	Caitlin Mars
Email:	anna@ensolum.com	Due Date:	09/24/24 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: CouierComments/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.

Project Information

Chain of Custody

Page 1 of 1

5409143

Client: Devon Energy Production Co LP Project: Barbados State #001 SWD Project Manager: Anna Byers Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 432-305-6415 Email: Devon-team@etechnv.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: 21196155 Incident ID: NABP2223636403				Lab WO# <u>5409143</u> Job Number <u>01058-0007</u>				1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input type="checkbox"/> 5 day TAT				CWA <input type="checkbox"/> SDWA <input type="checkbox"/>	
				Analysis and Method Depth (ft.) TPH GRO/DRO/GRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM GDOC TX				State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>				RCRA <input type="checkbox"/>					
Collected by: Edyte Konan				NAB11619656595													
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			
11:30	09.12.24	S	1	BH42	1	0.5'						X		Changed incident # per client 9/18/24 CM			
11:40	09.12.24	S	1	BH42	2	4'						X					
11:50	09.12.24	S	1	BH42	3	10'						X					
12:00	09.12.24	S	1	BH42	4	15'						X					
12:10	09.12.24	S	1	BH42	5	20'						X					
12:20	09.12.24	S	1	BH42	6	25'						X					
12:30	09.12.24	S	1	BH42	7	29'						X					
09/12/2024																	
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: <u>EA</u>																	
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																	
Relinquished by: (Signature) <u>[Signature]</u>				Date <u>09/13/24</u> Time <u>14:30</u>		Received by: (Signature) <u>Michelle Gonzales</u>				Date <u>9-13-24</u> Time <u>1430</u>		Lab Use Only Received on ice: <input checked="" type="checkbox"/> N					
Relinquished by: (Signature) <u>Michelle Gonzales</u>				Date <u>9-13-24</u> Time <u>1700</u>		Received by: (Signature) <u>[Signature]</u>				Date <u>9-18-24</u> Time <u>7:30</u>		T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature) _____				Date _____ Time _____		Received by: (Signature) _____				Date _____ Time _____		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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E409106

Job Number: 01058-0007

Received: 9/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

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: 9/25/24



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: Barbados State #001 SWD
Workorder: E409106
Date Received: 9/13/2024 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/13/2024 7:45:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH43 - 0.5'	5
BH43 - 4'	6
BH43 - 10'	7
BH43 - 15'	8
BH43 - 20'	9
BH43 - 25'	10
BH43 - 29'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH43 - 0.5'	E409106-01A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 4'	E409106-02A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 10'	E409106-03A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 15'	E409106-04A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 20'	E409106-05A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 25'	E409106-06A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.
BH43 - 29'	E409106-07A	Soil	09/10/24	09/13/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 0.5'

E409106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
<i>Surrogate: Bromofluorobenzene</i>		87.2 %	70-130	09/13/24	09/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/13/24	09/17/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
<i>Surrogate: Bromofluorobenzene</i>		87.2 %	70-130	09/13/24	09/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.3 %	70-130	09/13/24	09/17/24	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
<i>Surrogate: n-Nonane</i>		91.3 %	50-200	09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	107	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 4'

E409106-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	85.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	85.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.4 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	93.6 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	78.8	20.0	1	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 10'

E409106-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	87.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	83.9 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 15'

E409106-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	91.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	91.3 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.8 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	87.2 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 20'

E409106-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.6 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	92.8 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 25'

E409106-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2437098
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.8 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.5 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	98.0 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2437084
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	88.3 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2437105
Chloride	ND	200	10	09/13/24	09/14/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
9/25/2024 11:11:05AM

BH43 - 29'

E409106-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Benzene	ND	0.0250	1	09/13/24	09/17/24	
Ethylbenzene	ND	0.0250	1	09/13/24	09/17/24	
Toluene	ND	0.0250	1	09/13/24	09/17/24	
o-Xylene	ND	0.0250	1	09/13/24	09/17/24	
p,m-Xylene	ND	0.0500	1	09/13/24	09/17/24	
Total Xylenes	ND	0.0250	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2437098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/13/24	09/17/24	
Surrogate: Bromofluorobenzene	88.0 %	70-130		09/13/24	09/17/24	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		09/13/24	09/17/24	
Surrogate: Toluene-d8	99.3 %	70-130		09/13/24	09/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2437084	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/13/24	09/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/13/24	09/17/24	
Surrogate: n-Nonane	91.0 %	50-200		09/13/24	09/17/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2437105	
Chloride	ND	200	10	09/13/24	09/14/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:11:05AM

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 (2437098-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.444		0.500		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2437098-BS1) Prepared: 09/13/24 Analyzed: 09/18/24

Benzene	2.10	0.0250	2.50		84.0	70-130			
Ethylbenzene	2.13	0.0250	2.50		85.4	70-130			
Toluene	2.28	0.0250	2.50		91.4	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130			
Total Xylenes	6.89	0.0250	7.50		91.9	70-130			
Surrogate: Bromofluorobenzene	0.451		0.500		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			

Matrix Spike (2437098-MS1) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/18/24

Benzene	2.11	0.0250	2.50	ND	84.5	48-131			
Ethylbenzene	2.16	0.0250	2.50	ND	86.5	45-135			
Toluene	2.29	0.0250	2.50	ND	91.6	48-130			
o-Xylene	2.30	0.0250	2.50	ND	91.9	43-135			
p,m-Xylene	4.61	0.0500	5.00	ND	92.1	43-135			
Total Xylenes	6.90	0.0250	7.50	ND	92.0	43-135			
Surrogate: Bromofluorobenzene	0.446		0.500		89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike Dup (2437098-MSD1) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/17/24

Benzene	2.12	0.0250	2.50	ND	84.7	48-131	0.213	23	
Ethylbenzene	2.17	0.0250	2.50	ND	86.8	45-135	0.369	27	
Toluene	2.32	0.0250	2.50	ND	93.0	48-130	1.47	24	
o-Xylene	2.30	0.0250	2.50	ND	92.2	43-135	0.304	27	
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	0.304	27	
Total Xylenes	6.90	0.0250	7.50	ND	91.9	43-135	0.101	27	
Surrogate: Bromofluorobenzene	0.450		0.500		90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:11:05AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437098-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.444		0.500		88.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			

LCS (2437098-BS2) Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: Bromofluorobenzene	0.452		0.500		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike (2437098-MS2) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.1	70-130			
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2437098-MSD2) Source: E409105-06 Prepared: 09/13/24 Analyzed: 09/16/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.1	70-130	4.86	20	
Surrogate: Bromofluorobenzene	0.448		0.500		89.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:11:05AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2437084-BLK1) Prepared: 09/13/24 Analyzed: 09/17/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2437084-BS1) Prepared: 09/13/24 Analyzed: 09/17/24

Diesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2437084-MS1) Source: E409105-01 Prepared: 09/13/24 Analyzed: 09/18/24

Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.9	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike Dup (2437084-MSD1) Source: E409105-01 Prepared: 09/13/24 Analyzed: 09/18/24

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	27.9	20	R3
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	9/25/2024 11:11:05AM

Anions by EPA 300.0/9056A

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 (2437105-BLK1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	ND	20.0							
LCS (2437105-BS1)					Prepared: 09/13/24 Analyzed: 09/13/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2437105-MS1)					Source: E409105-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	287	20.0	250	36.4	100	80-120			
Matrix Spike Dup (2437105-MSD1)					Source: E409105-05		Prepared: 09/13/24 Analyzed: 09/13/24		
Chloride	285	20.0	250	36.4	99.5	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

Devon Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	09/25/24 11:11

- 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.



Released to: Imaging: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: Devon Energy Production Co LP					Bill To		Lab Use Only						TAT			EPA Program					
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E409106		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@etechnv.com					WO: 21196155																
					Incident ID: nAPP2223636403																
Collected by: Edyte Konan																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks				
14:50	09.10.24	S	1	BH43	1	0.5'									X						
15:00	09.10.24	S	1	BH43	2	4'									X						
15:10	09.10.24	S	1	BH43	3	10'									X						
15:20	09.10.24	S	1	BH43	4	15'									X						
15:30	09.10.24	S	1	BH43	5	20'									X						
15:40	09.10.24	S	1	BH43	6	25'									X						
15:50	09.10.24	S	1	BH43	7	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.												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													
		09/12/24	06:00			9-12-24	0600	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
		9-13-24	0220			9-13-24	0745														
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: 9/13/2024 9:14:53AM

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:	Devon Energy - Carlsbad	Date Received:	09/13/24 07:45	Work Order ID:	E409106
Phone:	(575) 748-0176	Date Logged In:	09/12/24 13:29	Logged In By:	Noe Soto
Email:	anna@ensolum.com	Due Date:	09/19/24 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: 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

Page 1 of 1

Client: Devon Energy Production Co LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E409106		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	XL GDOC	State				
Phone: 432-305-6415				Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WO: 21196155														
Incident ID: NAPP2223636403				nA31619656595														
Collected by: Edyte Konan				Sample ID		Lab Number		Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers															
14:50	09.10.24	S	1	BH43		1		0.5'						X		Incident ID updated per A. Byers 9/13/24 - RAS		
15:00	09.10.24	S	1	BH43		2		4'						X				
15:10	09.10.24	S	1	BH43		3		10'						X				
15:20	09.10.24	S	1	BH43		4		15'						X				
15:30	09.10.24	S	1	BH43		5		20'						X				
15:40	09.10.24	S	1	BH43		6		25'						X				
15:50	09.10.24	S	1	BH43		7		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.										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]				09/12/24		06:00		Michelle Gonzales				9-12-24		0600		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3		
Michelle Gonzales				9-13-24		0220		[Signature]				9-13-24		0745				
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

APPENDIX J

Correspondence & Notifications

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 305995

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 305995
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/24/2024
Time sampling will commence	09:00 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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 305995

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 305995
	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.	1/22/2024

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 306721

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 306721
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/25/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 306721

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 306721
	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.	1/23/2024

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 307930

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307930
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/29/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307930

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307930
	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.	1/25/2024

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 307935

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307935
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/30/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307935

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307935
	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.	1/25/2024

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 307939

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307939
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307939

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307939
	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.	1/25/2024

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 310531

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310531
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/05/2024
Time sampling will commence	09:00 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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 310531

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310531
	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.	2/1/2024

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 310534

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310534
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 310534

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310534
	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.	2/1/2024

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 380617

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380617
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2024
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 CR 429 & Hildago Rural Rd, Go SW Hildago APPX 1.48 mi, Travel NW on Dirt Rd 0.08 mi to pad.

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 380617

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380617
	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.	9/4/2024

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 380619

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380619
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
Time sampling will commence	09:30 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 CR 429 & Hildago Rural Rd, Go SW Hildago APPX 1.48 mi, Travel NW on Dirt Rd 0.08 mi to pad.

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 380619

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380619
	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.	9/4/2024

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 380624

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380624
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
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 CR 429 & Hildago Rural Rd, Go SW Hildago APPX 1.48 mi, Travel NW on Dirt Rd 0.08 mi to pad.

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 380624

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380624
	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.	9/4/2024

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 380626

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380626
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	30,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2024
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 CR 429 & Hildago Rural Rd, Go SW Hildago APPX 1.48 mi, Travel NW on Dirt Rd 0.08 mi to pad.

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 380626

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 380626
	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.	9/4/2024

APPENDIX K

Archived Reports

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





SITE CHARACTERIZATION AND REMEDIATION PLAN

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

Site Information:

Barbados State #001 SWD

Incident Number nAB1619656595

Unit I, Section 32, Township 23 South, Range 26 East

Eddy County, New Mexico

(32.34621, -104.308265)

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 (SCRP) detailing site assessment and delineation soil sampling activities associated with inadvertent release of produced water at the Barbados State #001 SWD (Site). Based on laboratory analytical results from soil sampling activities at the Site, WPX proposes this RWP, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit I, Section 32, Township 23 South, Range 26 East, in Eddy County, New Mexico (32.34621°, -104.308265°) and is associated with oil and gas exploration and production operations on State Land (**Figure 1** in **Appendix A**).

On June 28, 2016, it was discovered that corrosion of a 2-inch valve on a pump discharge line resulted in approximately 65 barrels (bbls) of produced water to be released and contained on the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 60 bbls of free-standing fluids. The day following release discovery, immediate notice was given to the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) via phone and email. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on July 12, 2016, and was assigned Incident Number nAB1619656595. The observed extent of the release is presented in **Figure 2** in **Appendix A**.

Due to the release location, a Right of Entry (ROE) Permit to access pasture soil surrounding the Site was required. WPX contracted SWCA Environmental Consultants (SWCA) to conduct a cultural survey of the requested area, as required in the Cultural Properties Protection Rule, and submitted the ROE in preparation for soil characterization and/or remediation activities. The completed *NMSLO Cultural Resources Cover Sheet Exhibit A* form is included in **Appendix B**. Executed permit RE-6694 was issued on September 18, 2023, prior to accessing pasture soil for remediation purposes. In order to prepare for additional drilling activities proposed in this SCR, permit RE-6694 was reissued on June 3, 2014.

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.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on a recent depth to groundwater measurement of United States Geological Survey (USGS) well 322117104183501, located approximately 0.5-mile northwest of the Site. The well was advanced to a



total of 140 feet bgs and depth to groundwater was most recently recorded on January 30, 2018, and measured 94.9 feet bgs. Another well located approximately 0.5-mile northeast of the Site indicates depth to groundwater is greater than 100 ft bgs, however, the measurement data is from 2001, and as such, the estimated depth to groundwater at the Site is based off the most recent of the two groundwater measurements. Referenced well records are provided as **Appendix C**. The well locations and additional regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

Based on the desktop review, the current BLM Carlsbad Field Office (CFO) karst cave potential map indicates the Site overlies a critical karst resource area and a high potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review, specifically the designated karst potential 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)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

[†]The reclamation standard 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.

DELINEATION SOIL SAMPLING ACTIVITIES

On July 6, 2023, Etech conducted delineation soil sampling activities to confirm details of the release provided on the Form C-141 and to characterize the AOC by verifying the presence or absence of impacted soil. Two delineation borings (BH01 and BH02) were advanced via mechanical equipment, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected at a 5-foot interval maximum from each delineation soil sampling location for laboratory analyses, representing at minimum the highest observed field screening concentrations and the greatest depth. Upon completion of BH02, Etech concluded that equipment limitations would inhibit successful achievement of delineation. A drill rig was scheduled to return to continue delineation activities.

On January 24 through February 6, 2024, Etech returned to the Site equipped with a drill rig to continue delineation soil sampling activities. Twenty-six delineation boreholes (BH01 through BH26) were advanced to continue assessing the lateral and vertical extent of the AOC. Delineation activities were driven by field screening soil for VOCs and chloride as previously described. Soil samples were collected at a 5-foot interval maximum from each delineation soil sampling location for laboratory analyses up to 29 feet bgs, representing at minimum the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions from all delineation activities are included on soil sampling logs shown in **Appendix D**. The locations of the delineation soil samples are shown in **Figure 2** and **Figure 2A** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix E**.

The delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict



chain-of-custody procedures, to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of Benzene and BTEX for all delineation soil samples were below the applicable Site Closure Criteria; Laboratory analytical results of TPH for all delineation soil samples were below the applicable Site Closure Criteria, except soil samples collected from BH07 (0.5 feet bgs and 4 feet bgs) and BH13 (0.5 feet bgs).

Laboratory analytical results indicated chloride concentrations exceeded the applicable Site Closure Criteria up to 24 feet bgs throughout the well pad, specifically at sampling locations BH01 through BH16 and BH19 through BH24. Laboratory analytical results are summarized in Table 1 in **Attachment F**, and the complete laboratory reports with chain-of-custody documentation is included in **Attachment G**.

PROPOSED REMEDIATION WORK PLAN AND SCHEDULE

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

- Based on laboratory analytical results, the extent of residual impacts extends beyond the observed release extent. As such, an Area of Concern (AOC) was created to encompass all identified residual impacts as per Site Closure Criteria (**Figure 2** and **Figure 3** in **Appendix A**).
- BTEX and TPH concentrations were below the Site Closure Criteria for all delineation soil samples, except at BH07 and BH13. TPH concentrations exist up to 4 feet bgs within the AOC within the vicinity of soil sampling locations BH07 and BH13, characterized by concentrations ranging from 145 mg/kg to 2,870 mg/kg.
- Identified chloride impacts, characterized by concentrations ranging from 656 mg/kg to 6,150 mg/kg, exist up to 24 feet bgs throughout the AOC. Laboratory analytical results for chloride concentrations for the remaining delineation soil samples surrounding the AOC are below the Site Closure Criteria.
- The terminus soil sample for all borings were in compliance with Site Closure Criteria, except soil sampling location BH02. As such, the Site has been predominately vertically delineated.

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

- Continued delineation is necessary to determine the vertical and horizontal boundaries of residual impacts. WPX proposes to advance existing delineation soil sampling location BH02 until Site Closure Criteria is met. Sixteen additional borings are proposed surrounding the AOC to further assist with lateral delineation (**Figure 3** in **Appendix A**).
- Upon receipt of proposed delineation soil sample results indicating full delineation of residual impacts, a Site Characterization and Remediation Plan Addendum (SCRPA) will be prepared, detailing a proposal of corrective actions to rectify environmental impacts.

PROPOSED TIMELINE

Additional drilling activities have been scheduled to start on September 9, 2024, with Cascade Environmental (Cascade) in accordance with this SCRP. All proposed borings and the advancement of existing BH02 are anticipated to be completed within two weeks of the scheduled start date. Upon receipt of laboratory analytical results and confirmation of full Site delineation, a SCRPA will be prepared and submitted to the NMOCD and NMSLO for review.



LIMITATIONS

Etech has prepared this SCRP to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

Based on the proposed scope of work, WPX believes the proposed remedial actions will meet the requirements set forth in NMAC 19.15.29.13 regulations to be protective of human health, the environment and groundwater. If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Anna Byers at (432) 305-6415 or anna@etechenv.com. Email correspondence and notification receipts regarding Site activities are included in **Appendix H**.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

A handwritten signature in cursive script that reads 'Anna Byers'.

Anna Byers
Senior Geologist

A handwritten signature in cursive script that reads 'Joseph S. Hernandez'.

Joseph S. Hernandez
Senior Managing Geologist

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



Appendices:

Appendix A	Figure 1: Site Location Map
	Figure 1A: Site Characterization Map – Groundwater
	Figure 1B: Site Characterization Map – Surficial Receptors
	Figure 1C: Site Characterization Map – Karst Potential
	Figure 2: Delineation Soil Sample Locations
	Figure 2A: Delineation Soil Sample Locations
	Figure 3: Proposed Delineation Soil Sampling Locations
Appendix B	NMSLO Cultural Resources Cover Sheet Exhibit A
Appendix C	Referenced Well Records
Appendix D	Soil Sampling Logs
Appendix E	Photographic Log
Appendix F	Tables
Appendix G	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix H	Correspondence & Notifications

APPENDIX A

Figures

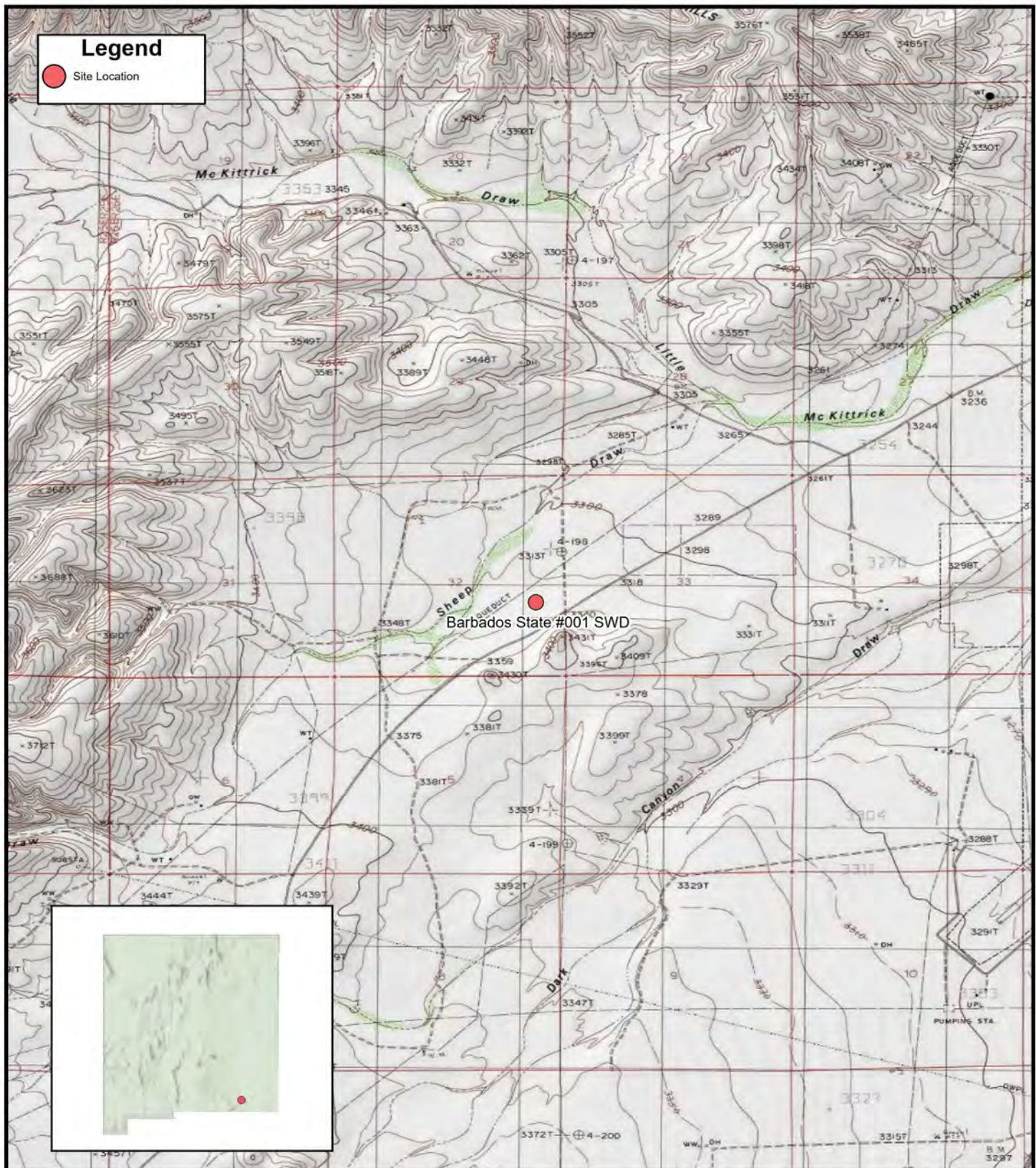


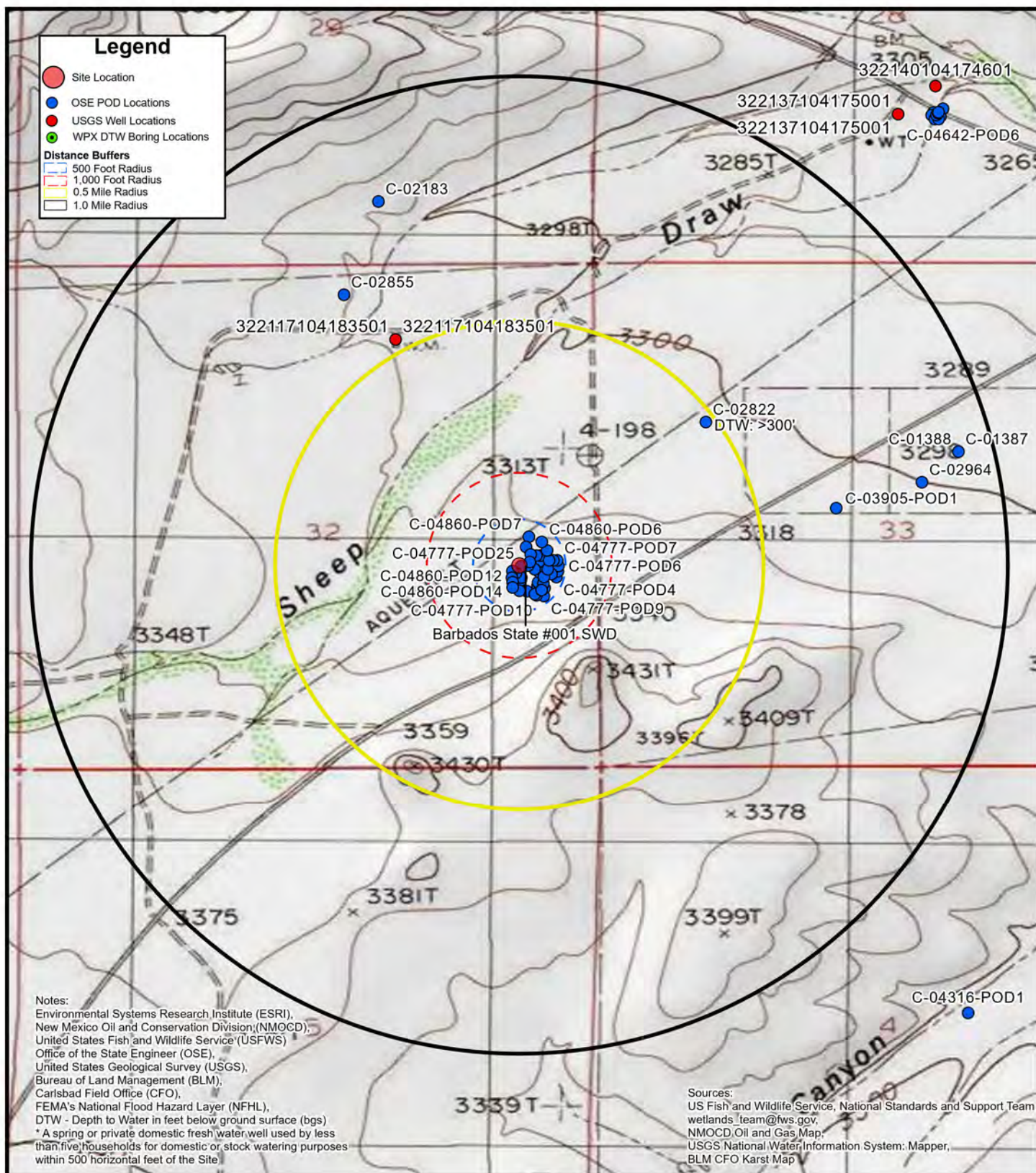
FIGURE 1

Site Location Map

WPX ENERGY PERMIAN, LLC
Barbados State #001 SWD
Unit 1 Sec 32 T23S R26E
Eddy County, New Mexico

eTECH

0 2,000 4,000 Feet



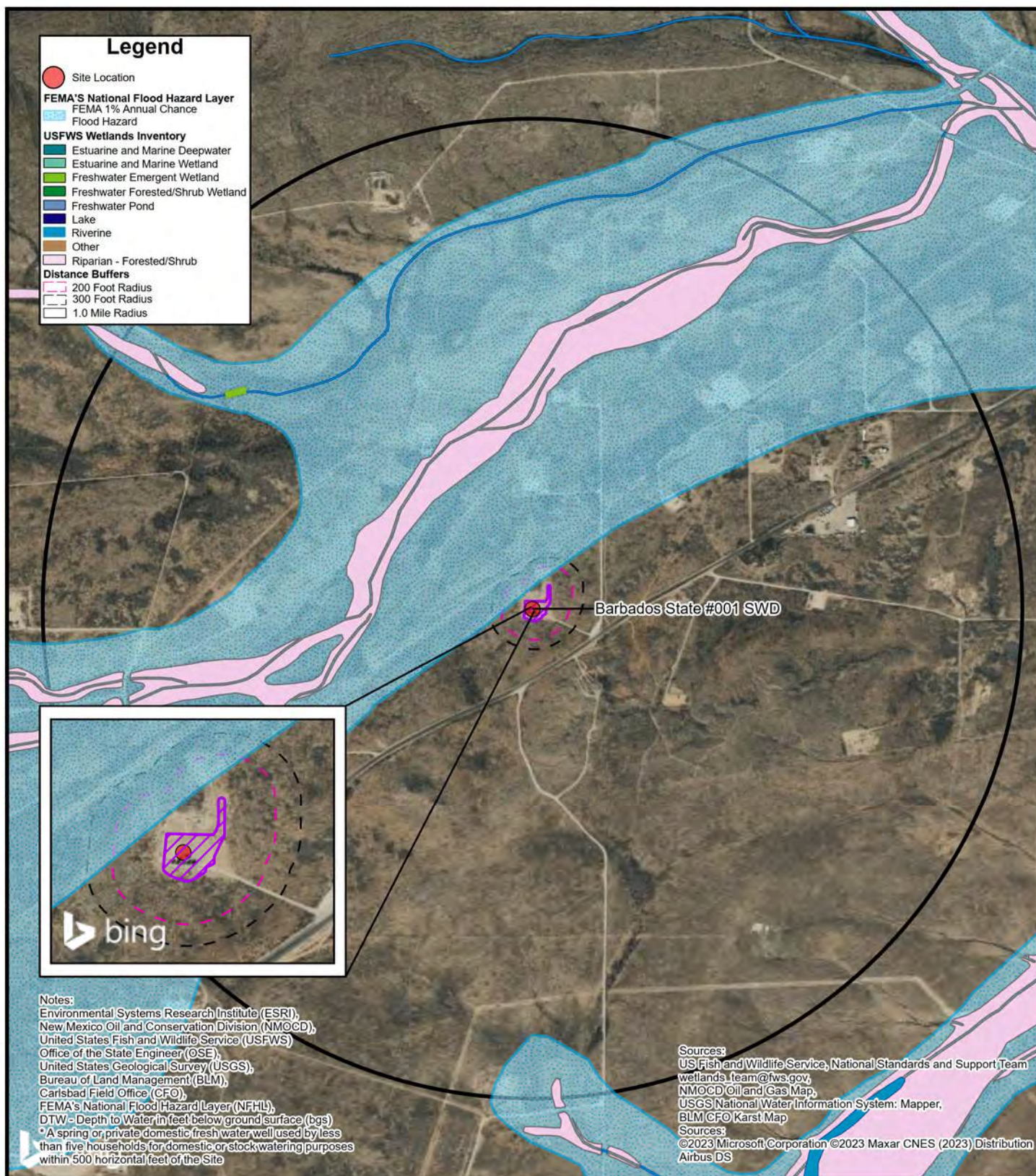
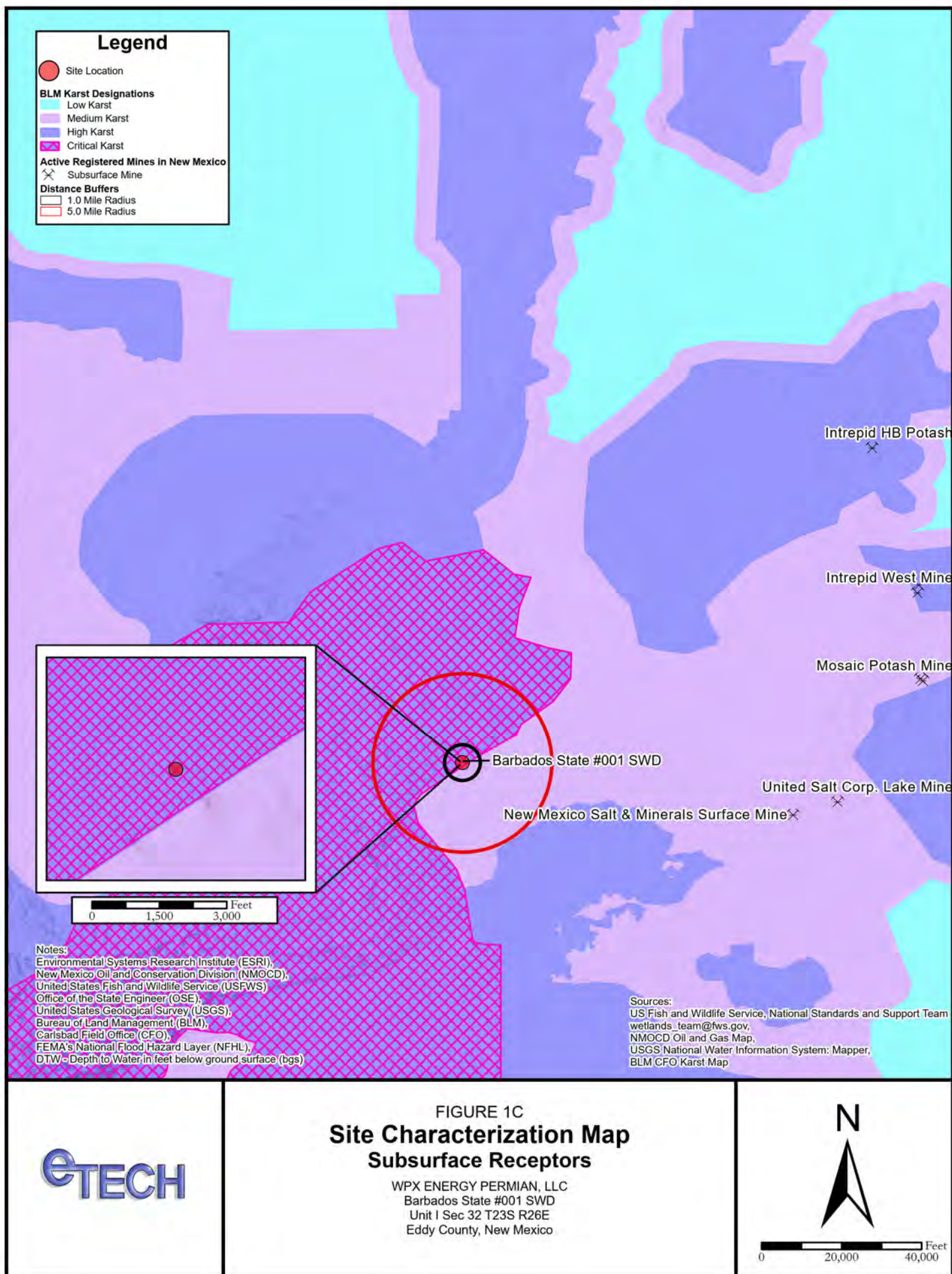


FIGURE 1B
**Site Characterization Map
 Surficial Receptors**

WPX ENERGY PERMIAN, LLC
 Barbados State #001 SWD
 Unit 1 Sec 32 T23S R26E
 Eddy County, New Mexico

eTECH





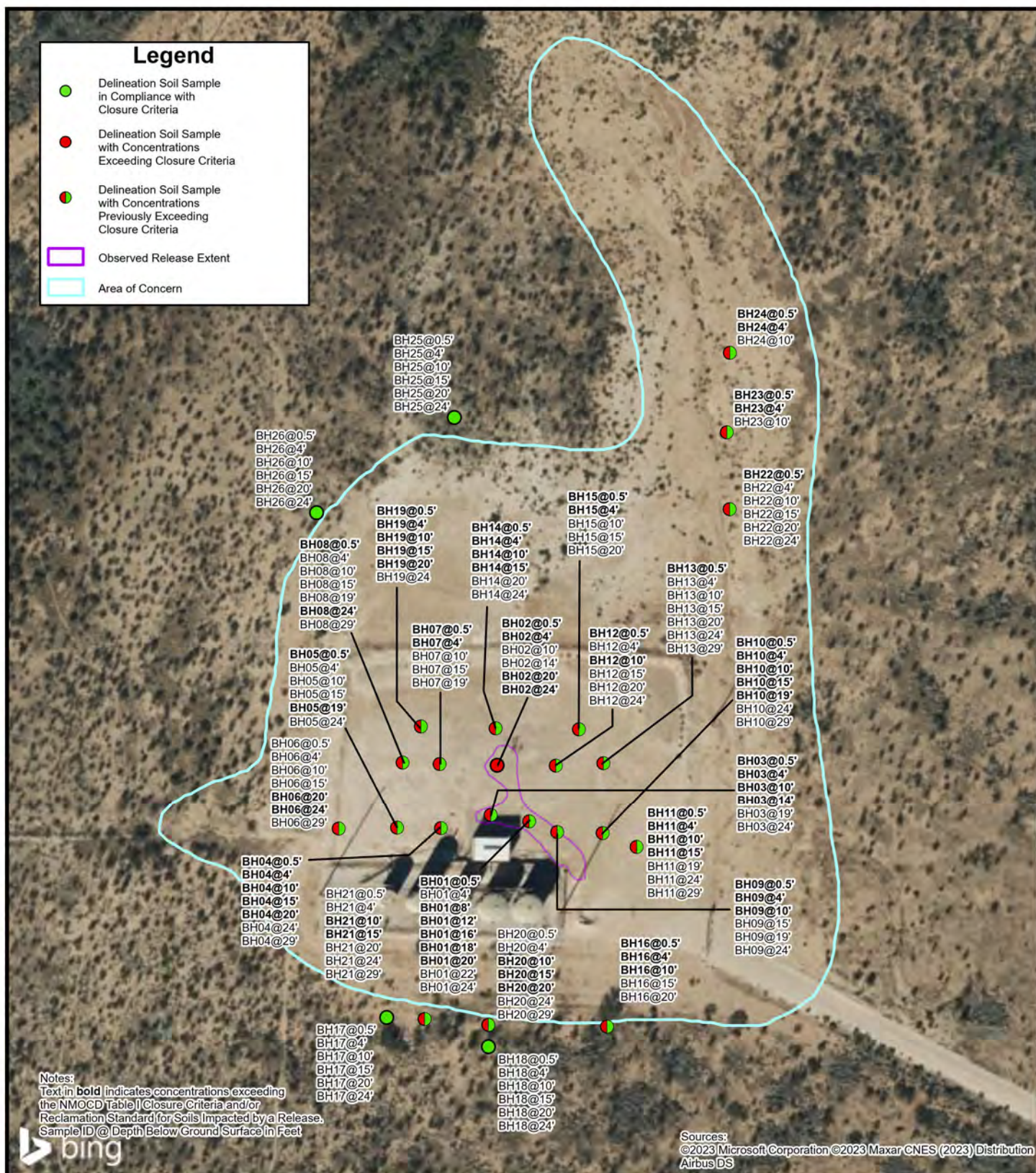


FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
 Barbados State #001 SWD
 Unit I Sec 32 T23S R26E
 Eddy County, New Mexico

N



0 50 100 Feet

eTECH

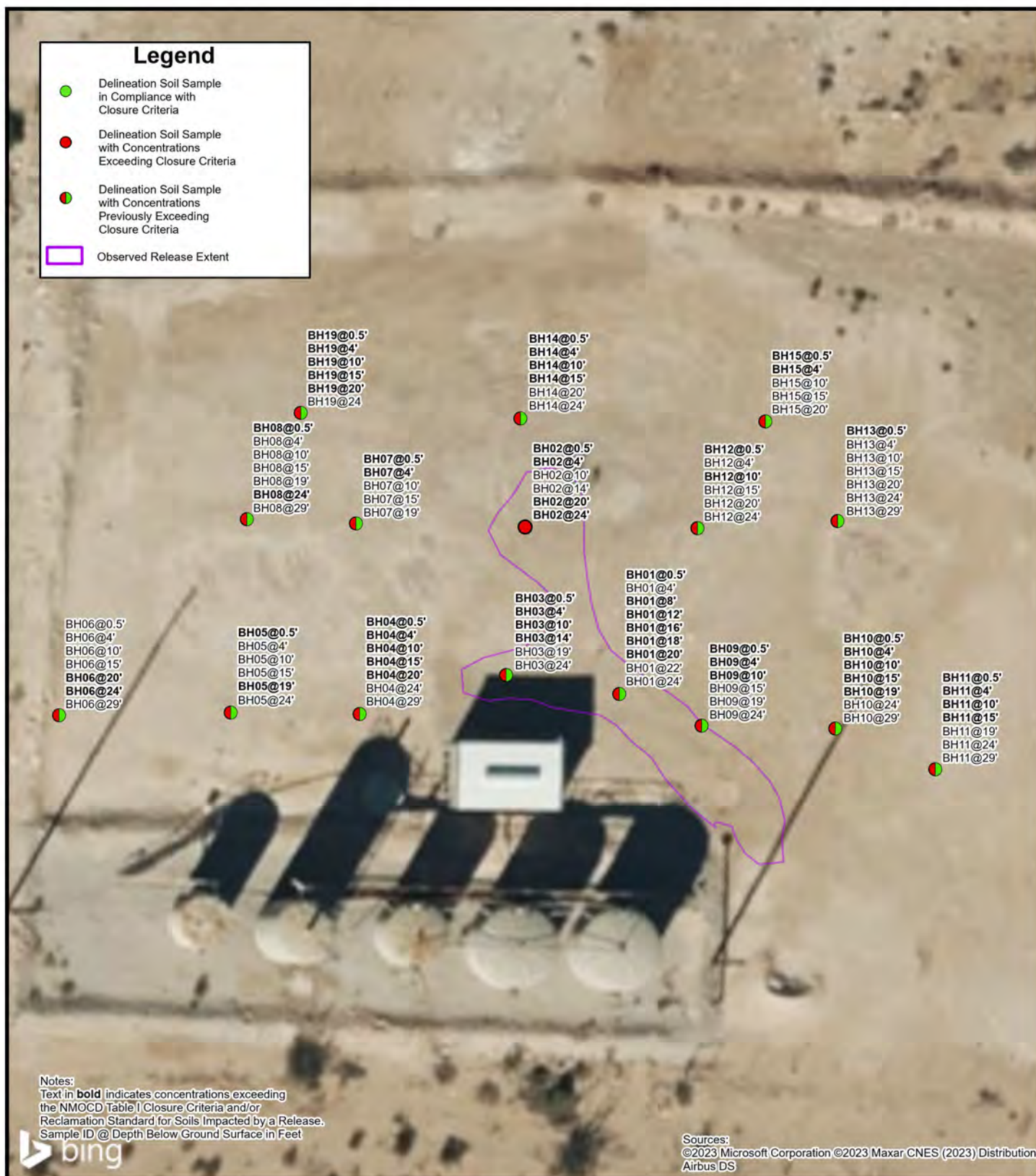


FIGURE 2A

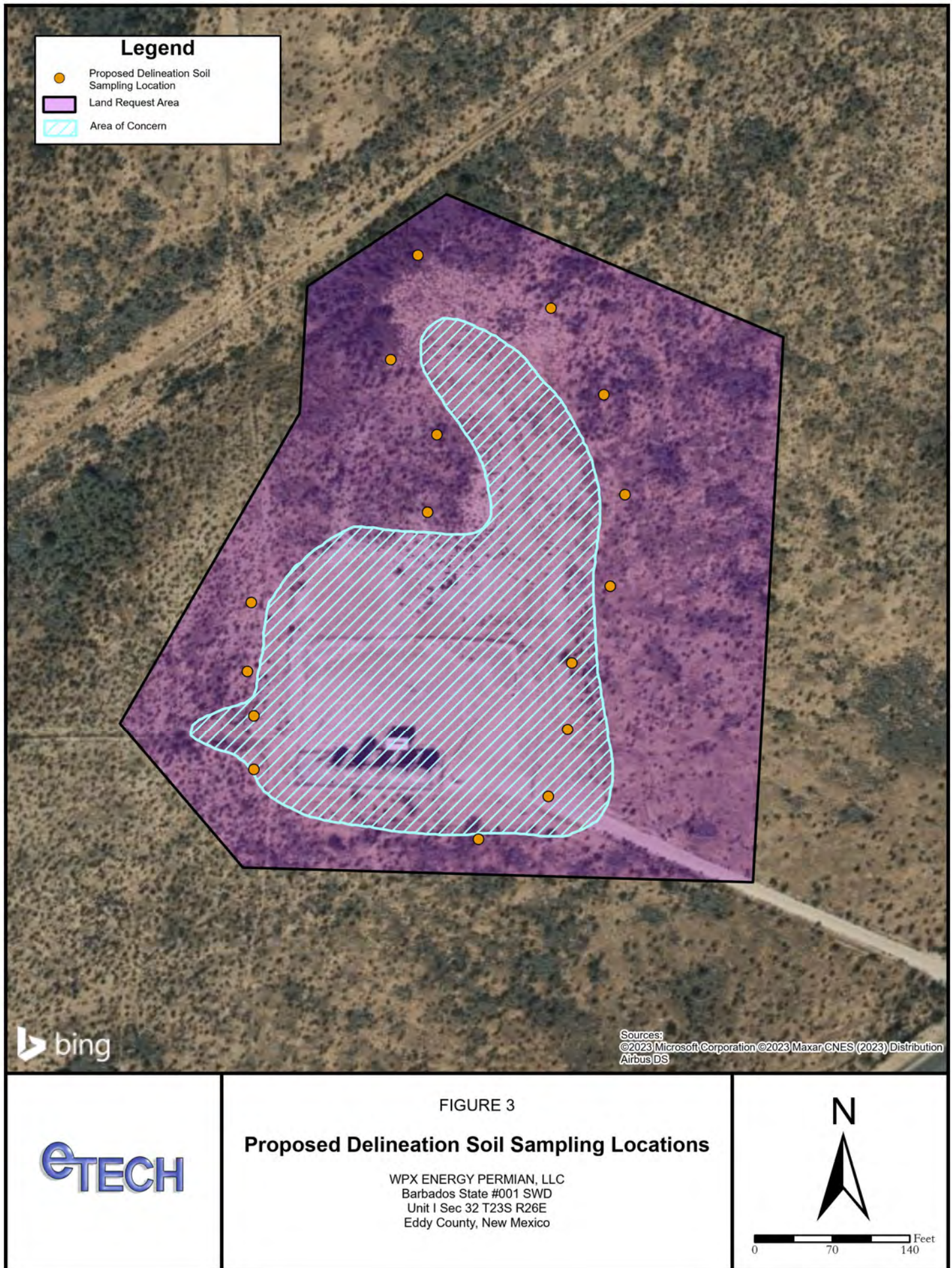
Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
Barbados State #001 SWD
Unit 1 Sec 32 T23S R26E
Eddy County, New Mexico



0 15 30 Feet

eTECH



APPENDIX B

NMSLO Cultural Resources Cover Sheet Exhibit A



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Project Proponent (Applicant):

Project Title/Description:

Cultural Resources Consultant:

Project Location:

County(ies):

Section/Township/Range:

For NMSLO Agency Use Only:

NMSLO Lease Number:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No change in wording should occur in this legal document under any circumstances. The completion of this Cover Sheet does not allow for any ground disturbance before official approval of the proposed lease activity, nor does it guarantee that no further steps will be required for the approval of your application or project.

Form Revised 6.2.22

APPENDIX C

Referenced Well Records

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





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322117104183501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322117104183501 22S.26E.32.22133

Eddy County, New Mexico
Latitude 32°21'13.35", Longitude 104°18'45.57" NAD83
Land-surface elevation 3,319.00 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1954-02-11			D 62610		3223.64	NGVD29	1		Z	
1954-02-11			D 62611		3225.26	NAVD88	1		Z	
1954-02-11			D 72019	95.36			1		Z	
1955-01-13			D 62610		3223.27	NGVD29	1		Z	
1955-01-13			D 62611		3224.89	NAVD88	1		Z	
1955-01-13			D 72019	95.73			1		Z	
1956-01-06			D 62610		3224.08	NGVD29	1		Z	
1956-01-06			D 62611		3225.70	NAVD88	1		Z	
1956-01-06			D 72019	94.92			1		Z	
1957-01-07			D 62610		3222.50	NGVD29	1		Z	
1957-01-07			D 62611		3224.12	NAVD88	1		Z	
1957-01-07			D 72019	96.50			1		Z	
1958-01-10			D 62610		3221.02	NGVD29	1		Z	
1958-01-10			D 62611		3222.64	NAVD88	1		Z	
1958-01-10			D 72019	97.98			1		Z	
1959-01-26			D 62610		3224.91	NGVD29	1		Z	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-01-26			D	62611	3226.53	NAVD88	1		Z	
1959-01-26			D	72019	94.09		1		Z	
1960-01-07			D	62610	3224.40	NGVD29	1		Z	
1960-01-07			D	62611	3226.02	NAVD88	1		Z	
1960-01-07			D	72019	94.60		1		Z	
1961-01-10			D	62610	3224.43	NGVD29	1		Z	
1961-01-10			D	62611	3226.05	NAVD88	1		Z	
1961-01-10			D	72019	94.57		1		Z	
1962-01-15			D	62610	3224.17	NGVD29	1		Z	
1962-01-15			D	62611	3225.79	NAVD88	1		Z	
1962-01-15			D	72019	94.83		1		Z	
1963-01-21			D	62610	3223.98	NGVD29	1		Z	
1963-01-21			D	62611	3225.60	NAVD88	1		Z	
1963-01-21			D	72019	95.02		1		Z	
1964-01-17			D	62610	3221.70	NGVD29	P		Z	
1964-01-17			D	62611	3223.32	NAVD88	P		Z	
1964-01-17			D	72019	97.30		P		Z	
1965-01-14			D	62610	3221.06	NGVD29	1		Z	
1965-01-14			D	62611	3222.68	NAVD88	1		Z	
1965-01-14			D	72019	97.94		1		Z	
1966-01-07			D	62610	3210.99	NGVD29	P		Z	
1966-01-07			D	62611	3212.61	NAVD88	P		Z	
1966-01-07			D	72019	108.01		P		Z	
1978-01-06			D	62610	3223.97	NGVD29	1		Z	
1978-01-06			D	62611	3225.59	NAVD88	1		Z	
1978-01-06			D	72019	95.03		1		Z	
1983-01-12			D	62610	3224.54	NGVD29	1		Z	
1983-01-12			D	62611	3226.16	NAVD88	1		Z	
1983-01-12			D	72019	94.46		1		Z	
1987-10-15			D	62610	3224.73	NGVD29	1		Z	
1987-10-15			D	62611	3226.35	NAVD88	1		Z	
1987-10-15			D	72019	94.27		1		Z	
1992-12-11			D	62610	3223.03	NGVD29	1		S	
1992-12-11			D	62611	3224.65	NAVD88	1		S	
1992-12-11			D	72019	95.97		1		S	
1998-01-14			D	62610	3222.59	NGVD29	1		S	
1998-01-14			D	62611	3224.21	NAVD88	1		S	
1998-01-14			D	72019	96.41		1		S	
2003-02-11			D	62610	3216.74	NGVD29	1		S	USGS
2003-02-11			D	62611	3218.36	NAVD88	1		S	USGS
2003-02-11			D	72019	102.26		1		S	USGS
2013-01-09	16:00 UTC		m	62610	3222.60	NGVD29	1		S	USGS
2013-01-09	16:00 UTC		m	62611	3224.22	NAVD88	1		S	USGS
2013-01-09	16:00 UTC		m	72019	96.40		1		S	USGS
2018-01-30	22:19 UTC		m	62610	3224.10	NGVD29	1		S	USGS
2018-01-30	22:19 UTC		m	62611	3225.72	NAVD88	1		S	USGS
2018-01-30	22:19 UTC		m	72019	94.90		1		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2023-06-26 12:36:37 EDT
0.29 0.24 nadww01

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

466510

Section 1. GENERAL INFORMATION

(A) Owner of well Tommy Hardesty Owner's Well No. _____
Street or Post Office Address 405 Elgin
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2822 and is located in the:

- a. NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 33 Township 22S Range 26E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348

Address 7317 Etcheverry Rd, Carlsbad, NM 88220

Drilling Began 5/19/01 Completed 5/24/01 Type tools Air Rotary Size of hole 4 7/8 in.

Elevation of land surface 67 at well is 3350 ft. Total depth of well 300 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			Dry Hole	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6	Sch 40 Pvc		+1	2	3			

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 10-04-2001 Quad _____ FWL _____ FSL _____
File No. C-2822 Use "Dry Hole" Location No. 22S.26E.33.132

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Dry hole. Left hole open (with cap on surface casing) in case of future effort to deepen well. Bailed well after drilling and found no water.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 and Section 5 need be completed.

APPENDIX D

Soil Sampling Logs

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





Sample Name: BH01 Date: 7/26/2023 & 1/22-1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: Trackhoe & HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: N/A

Total Depth: 24'

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	4,060	0	No	BH01	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	356	0	No	BH01	4	5	SP-SM	(4-19') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace small-coarse subround gravel, no stain, no odor.
Dry	796	0	No	BH01	8			@14' Color change to reddish brown with trace clay laminations.
Dry	1,416	0	No	BH01	12	10		(19-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small-large white crystalline gypsum inclusions, (3-8cm), no stain, no odor.
Dry	1,516	0	No	BH01	16	15		
Dry	2,180	0	No	BH01	18			
Dry	628	0	No	BH01	20	20	CL	
Dry	<112	0	No	BH01	22			
Dry	<112	0	No	BH01	24			
Total Depth								



Sample Name: BH02 Date: 7/26/2023 & 1/22-1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	3,744	0	No	BH02	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,072	0	No	BH02	4	5	SP-SM	(4-20') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace small-coarse subround gravel, no stain, no odor. @5' No gravel. @9' Increased consolidation. @13' Very large microcrystalline grey-light grey dolomite gravel and/ or boulder (6-20cm) with dissolution features (<1mm). @15' Interbedded yellow and reddish orange clay laminations (1mm).
Dry	<112	0	No	BH02	10	10		(20-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small-large white crystalline gypsum inclusions, (3-8cm), no stain, no odor.
Dry	112	0	No	BH02	14	15		
Dry	284	0	No	BH02	20	20	CL	
Dry	284	0	No	BH02	24	24		
Total Depth								



Sample Name: BH03

Date: 1/22-1/24/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	3,744	0	No	BH03	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	627	0	No	BH03	4	5	SP-SM	(4-19') SAND, dry, tan-light brown, poorly graded with silt, very fine-fine grain, trace large subround dolomite gravel, no stain, no odor. @15' Trace yellow-reddish orange sandy clay inclusions.
Dry	627	0	No	BH03	10	10		(19-24') SAND, dry, reddish brown, well graded with silt, fine-coarse grain, abundant small-large pink-white crystalline gypsum, trace clay, no stain, no odor.
Dry	1,072	0	No	BH03	14	15		
Dry	112	0	No	BH03	19	20	SW-SM	
Dry	<112	0	No	BH03	24	24		
Total Depth								



Sample Name: BH04

Date: 1/22-2/05/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	1,148	0	No	BH04	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	436	0	No	BH04	4	5	SP-SM	(2-11') SAND, dry, light brown, poorly graded with silt, fine grain, trace small subround gravel, no stain, no odor. @10' Very large microcrystalline grey-light grey dolomite gravel and/ or boulder (6-20cm) with dissolution features (<1mm).
Dry	1,872	0	No	BH04	10	10	SW-SM	(11-19') SAND, dry, tan-reddish brown, well graded with silt, fine-coarse grain, some yellow orange mottling, trace grey clay, no stain, no odor. (19-30') CLAY, reddish brown, dry, fine grain, medium plasticity, cohesive, abundant laminations (<1mm), no stain, no odor. @24' White crystalline gypsum inclusions (~6cm)
Dry	1,744	0	No	BH04	15	15		
Dry	252	0	No	BH04	20	20	CL	
Dry	140	0	No	BH04	25	25		
Dry	<112	0	No	BH04	29	29		
Total Depth								



Sample Name: BH05

Date: 1/22-1/24/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,512	0	No	BH05	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	136	0	No	BH05	4	5		(4-5') SAND, dry, tan-light brown, poorly graded with silt, fine grain, trace medium subround dolomite gravel, no stain, no odor.
								(5-7') DOLOMITE, dry, tan-light grey, fine, microcrystalline, very consolidated, no stain, no odor.
								(7-10') SAND, dry, light brown, well graded with silt, fine-coarse grain, some small-medium subround-subangular gravel, trace clay, no stain, no odor.
Dry	112	0	No	BH05	10	10		(10-15') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, some dissolution features (<1mm), no stain, no odor.
								(15-24') SAND, dry, tan-yellow, well graded with silt, fine-coarse grain, abundant small-large subround-subangular gravel, some clay inclusions, no stain, no odor.
Dry	<112	0	No	BH05	15	15		@19' Abundant large microcrystalline grey-yellow subround-subangular dolomite gravel.
								@23' Color change to pinkish brown, abundant white-pink crystalline gypsum, no dolomite gravel.
Dry	628	0	No	BH05	19	20		
Dry	164	0	No	BH05	24			
Total Depth								



Sample Name: BH06 Date: 1/24-2/05/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	<112	0	No	BH06	0.5	0	CCHE	(0-3') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	112	0	No	BH06	4	5	SW-SM	(3-5') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
							DOL	(5-7') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, trace dissolution features (<1mm), trace yellow mottling, no stain, no odor.
Dry	<112	0	No	BH06	10	10	SW-SM	(7-20') SAND, dry, light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline light grey dolomite gravel, no stain, no odor.
Dry	<112	0	No	BH06	15	15		@14' Color change to tan, increase in dolomite gravel, trace clay.
								(20-23') DOLOMITE, dry, light grey, fine, microcrystalline, very consolidated, trace dissolution features (<1mm), trace yellow mottling, no stain, no odor.
Dry	356	0	No	BH06	20	20	DOL	(23-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some yellow-grey mottling no stain, no odor.
Dry	136	0	No	BH06	24	25	CL	@28' Large white crystalline gypsum inclusions (3-8cm)
Dry	<112	0	No	BH06	29	29		
Total Depth								



Sample Name: BH07

Date: 1/22-1/24/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 19'

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	1,320	0	No	BH07	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	480	0	No	BH07	4	5	SW-SM	(2-5') SAND, dry, light brown-brown, well graded with silt, fine-coarse grain, abundant small-medium subround-gravel, no stain, no odor.
Dry	<112	0	No	BH07	10	10	DOL	(5-18') DOLOMITE, dry, light grey, fine, microcrystalline, moderately consolidated, no stain, no odor.
Dry	136	0	No	BH07	15	15		(7-10') SAND, dry, light brown, well graded with silt, fine-coarse grain, some small-medium subround-subangular gravel, trace clay, no stain, no odor.
Dry	192	0	No	BH07	19	19	SW-SM	@10' Color change to light grey. @16' Some reddish brown clay. (18-19') SAND, dry, tan-reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, some clay, no stain, no odor.

Total Depth



Sample Name: BH08

Date: 1/23-2/06/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	1,872	0	No	BH08	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	192	0	No	BH08	4	5		(1-14') SAND, dry, light brown-brown, well graded with silt, fine-coarse grain, some small subround gravel, no stain, no odor. @5' Abundant large subround-subangular microcrystalline grey dolomite gravel.
Dry	112	0	No	BH08	10	10		@10' Gravel decrease in size.
								(14-16') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, trace crystalline gypsum (<1mm), trace yellow mottling, no stain, no odor.
Dry	112	0	No	BH08	15	15	CL	(16-21') DOLOMITE, dry, light grey, fine, microcrystalline, moderately consolidated, some interbedded sand and clay, no stain, no odor.
Dry	164	0	No	BH08	19	20	DOL	(21-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant small subround-subangular gravel, no stain, no odor.
Dry	140	0	No	BH08	24	25	CL	@28' Abundant white crystalline gypsum inclusions (3-6cm).
Dry	112	0	No	BH08	29	29		
Total Depth								



Sample Name: BH09

Date: 1/23-1/24/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	No	BH09	0.5	0	CCHE	(0-3') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Moist	1,232	0	No	BH09	4	5	SP-SM	(3-8') SAND, moist, light brown, poorly graded with silt, very fine-fine grain, some tan mottling, some clay, no stain, no odor.
							SW-SM	(8-14') SAND, dry, light brown, well graded with silt, very fine-fine grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, some clay, no stain, no odor.
Dry	576	0	No	BH09	10	10		(14-19') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, one large white crystalline gypsum inclusion (4-6 in), some yellow-grey mottling, no stain, no odor.
Dry	164	0	No	BH09	15	15	CL	(19-24') SILTSTONE, dry, pink-reddish brown, very fine grain, very consolidated, some gypsum inclusions, trace anhydrite, no stain, no odor.
Dry	220	0	No	BH09	19	19	SM-ST	
Dry	220	0	No	BH09	24			
Total Depth								



Sample Name: BH10

Date: 1/24-2/05/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	480	0	No	BH10	0.5	0	CCHE	(0-1.5') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	924	0	No	BH10	4	5	SP-SM	(1.5-8') SAND, moist, light brown, poorly graded with silt, very fine-fine grain, some small caliche gravel, no stain, no odor.
								@6' Trace large subround-subangular gravel (4-6cm).
Dry	1,744	0	No	BH10	10	10	CL	(14-16') CLAY, dry, tan-light brown, fine grain, medium plasticity, cohesive, some sand, trace small-large subround gravel, no stain, no odor.
								@11' Color change to reddish brown with tan mottling, no gravel.
Dry	680	0	No	BH10	15	15		@18' Large white crystalline gypsum inclusions, trace large subround microcrystalline grey dolomite gravel.
								@22' No dolomite.
Dry	112	0	No	BH10	19	20		
Dry	<112	0	No	BH10	24	25		
Dry	<112	0	No	BH10	29	29		
Total Depth								



Sample Name: BH11 Date: 1/24-2/07/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	680	0	No	BH11	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Moist	320	0	No	BH11	4	5	SP-SM	(2-12') SAND, moist, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, trace clay, no stain, no odor.
Moist	480	0	No	BH11	10	10	CL	@3' Dry, increased consolidation. @8' Moist, increased silt and clay, abundant small-large white crystalline gypsum inclusions (1mm-3cm).
Dry	320	0	No	BH11	15	15		(12-27') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some yellow-tan mottling, some white crystalline gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH11	19	20		@18' Gypsum inclusions increased in size (3-12cm). (24-27') SILTSTONE, dry, reddish brown, very fine grain, moderately consolidated, some gypsum inclusions, no stain, no odor.
Dry	196	0	No	BH11	24	25		(27-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH11	29	29		
Total Depth								



Sample Name: BH12 Date: 1/24/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,008	0	No	BH12	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	<112	0	No	BH12	4	5	SP-SM	(2-4') SAND, dry, brown, poorly graded with silt, fine grain, trace clay, no stain, no odor.
							SW-SM	(4-10') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
								@6' Trace reddish brown clay.
Dry	1,292	0	No	BH12	10	10	SP-SM	(10-13') SAND, dry, brown, poorly graded with silt, fine grain, trace clay, no stain, no odor.
								(13-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (4-10cm), no stain, no odor.
Dry	216	0	No	BH12	15	15	CL	@22' very consolidated, partial claystone features.
Dry	<112	0	No	BH12	20	20		
Dry	164	0	No	BH12	24	24		
Total Depth								



Sample Name: BH13

Date: 1/24-2/06/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,232	0	No	BH13	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	112	0	No	BH13	4	5		(2-3') SAND, moist, brown, poorly graded with silt, very fine-fine grain, abundant small-large subround gravel, no stain, no odor.
Dry	112	0	No	BH13	10	10		(3-9') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
Dry	<112	0	No	BH13	15	15		(9-18') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, no stain, no odor. @10' Some large white crystalline gypsum inclusions (3-10cm). @11' Increased consolidation.
Dry	<112	0	No	BH13	19	20		(18-22') CALICHE, dry, tan, well graded with silt, fine-coarse grain, well consolidation, trace small subround gravel, no stain, no odor.
Dry	<112	0	No	BH13	24	25		(22-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.
Dry	116	0	No	BH13	29	29		
Total Depth								



Sample Name: BH14 Date: 1/25/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,252	0	No	BH14	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	592	0	No	BH14	4	5	SP-SM	(2-4') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor.
							SW-SM	(4-18') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
								@9' Gravel increased in size, some clay.
Dry	396	0	No	BH14	10	10		@14' Color change to tan, some medium subround microcrystalline grey-brown dolomite gravel.
								(18-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
Dry	444	0	No	BH14	15	15		@22' Increased gypsum inclusions.
							CL	
Dry	112	0	No	BH14	20	20		
Dry	<112	0	No	BH14	24	24		
Total Depth								



Sample Name: BH15 Date: 1/25/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 20'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,924	0	No	BH15	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,696	0	No	BH15	4	5	SP-SM	(2-5') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor.
							SW-SM	(5-13') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
Dry	<112	0	No	BH15	10	10		(13-20') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
							CL	@14' Color change to yellow-grey, increase in gypsum inclusions.
								@17' Color change to reddish brown.
Dry	<112	0	No	BH15	15	15		@22' Color change to yellow-grey.
Dry	<112	0	No	BH15	20	20		

Total Depth



Sample Name: BH16 Date: 1/25/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 20'

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	832	0	No	BH16	0.5	0	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	708	0	No	BH16	4	5	SP-SM	(2-10') SAND, dry, brown, poorly graded with silt, fine grain, trace small subround gravel, no stain, no odor. @4' Some tan mottling, trace white-pink crystalline gypsum grains.
Dry	900	0	No	BH16	10	10	SW-SM	(10-13') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
Dry	216	0	No	BH16	15	15	SM-ST	(13-19') SILTSTONE, dry, reddish brown, very fine grain, moderately consolidated, trace small white crystalline gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH16	20	20	CL	(19-20') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.

Total Depth



Sample Name: BH17 Date: 1/30/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	<112	0	No	BH17	0.5	0	SP-SM	(0-7') SAND, dry, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, no stain, no odor. @3' Color change to tan-light brown, increased consolidation.
Dry	<112	0	No	BH17	4	5		(7-14') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	112	0	No	BH17	10	10	SW-SM	(14-19') SILTSTONE, dry, reddish brown, fine grain, well consolidated, no stain, no odor. @19' Very large subround microcrystalline grey dolomite gravel.
Dry	356	0	No	BH17	15	15	SM-ST	(19-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
Dry	248	0	No	BH17	20	20	CL	
Dry	<112	0	No	BH17	24	24		
Total Depth								



Sample Name: BH18 Date: 1/29/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	<112	0	No	BH18	0.5	0	SP-SM	(0-9') SAND, dry, brown, poorly graded with silt, very fine-fine grain, some small-large subround gravel, trace organics, no stain, no odor.
Dry	900	0	No	BH18	4	5		@4' Decrease in gravel, increased consolidation, no organics. (9-13') SAND, dry, tan-light reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, abundant white-pink crystalline gypsum grains, moderately consolidated, no stain, no odor.
Dry	<112	0	No	BH18	10	10	SW-SM	(13-22') SILTSTONE, dry, light reddish brown, fine grain, well consolidated, abundant white crystalline gypsum grains, no stain, no odor.
Dry	<112	0	No	BH18	15	15	SM-ST	(22-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
Dry	112	0	No	BH18	20	20	CL	
Dry	<112	0	No	BH18	24	24		
Total Depth								



Sample Name: BH19

Date: 1/25/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,080	0	No	BH19	0.5	0	CCHE	(0-4') CALICHE, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,124	0	No	BH19	4	5		(4-24') SAND, dry, tan, well graded with silt, fine-coarse grain, abundant small-large subround-subangular microcrystalline grey dolomite gravel, no stain, no odor.
								@9' Abundant small-large subround-subangular microcrystalline grey dolomite gravel.
								@14' Color change to reddish brown, no dolomite gravel, some clay.
Dry	648	0	No	BH19	10	10		@18' Some small-large subround-subangular microcrystalline grey dolomite gravel.
Dry	832	0	No	BH19	15	15		
Dry	708	0	No	BH19	20	20		
Dry	316	0	No	BH19	24	24		
Total Depth								



Sample Name: BH20

Date: 1/29-2/05/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	<112	0	No	BH20	0.5	0	SP-SM	(0-9') SAND, dry, brown, poorly graded with silt, very fine-fine grain, some small-large subround gravel, trace organics, no stain, no odor.
Dry	<112	0	No	BH20	4	5		@4' Decrease in gravel, increased consolidation, no organics.
								(9-13') SAND, dry, tan-light reddish brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, abundant white-pink crystalline gypsum grains, moderately consolidated, no stain, no odor.
Dry	972	0	No	BH20	10	10	SW-SM	(13-22') SILTSTONE, dry, light reddish brown, fine grain, well consolidated, abundant white crystalline gypsum grains, no stain, no odor.
Dry	488	0	No	BH20	15	15	SM-ST	(22-29') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, some large white crystalline gypsum inclusions (3-10cm), no stain, no odor.
Dry	140	0	No	BH20	20	20		
Dry	<112	0	No	BH20	24	25	CL	
Dry	116	0	No	BH20	29	29		

Total Depth



Sample Name: BH21 Date: 1/30-2/06/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 29'

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	<112	0	No	BH21	0.5	0	SP-SM	(0-3') SAND, dry, brown, poorly graded with silt, very fine-fine grain, trace small subround gravel, no stain, no odor.
Dry	<112	0	No	BH21	4	5	SW-SM	(3-8') SAND, dry, tan, well graded with silt, fine-coarse grain, some small-large subround gravel, some brown mottling, no stain, no odor.
Dry	708	0	No	BH21	10	10	SP-SM	(8-17') SAND, moist, reddish brown, poorly graded with silt, fine grain, some clay, no stain, no odor. @10' Abundant large subround-subangular microcrystalline grey dolomite gravel.
Dry	708	0	No	BH21	15	15		(17-27') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor.
Dry	<112	0	No	BH21	20	20	CL	(27-29') CALICHE, dry, tan, well graded with silt, fine-coarse grain, well consolidation, trace small subround gravel, no stain, no odor.
Dry	<112	0	No	BH21	24	25		
Dry	<112	0	No	BH21	29	29	CCHE	
Total Depth								



Sample Name: BH22 Date: 1/30/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	4,060	0	No	BH22	0.5	0	SW-SM	(0-14') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor. @2' No organics. @9' Abundant small-large subround-subangular microcrystalline grey-beige dolomite gravel. (14-24') CLAY, dry, reddish brown, fine grain, medium plasticity, cohesive, abundant white crystalline gypsum inclusions, no stain, no odor. @19' Increased consolidation.
Dry	188	0	No	BH22	4	5		
Dry	112	0	No	BH22	10	10		
Dry	<122	0	No	BH22	15	15	CL	
Dry	<112	0	No	BH22	20	20		
Dry	<112	0	No	BH22	24	24		
Total Depth								



Sample Name: BH23

Date: 1/30/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 10'

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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	2,924	0	No	BH23	0.5	0	SW-SM	(0-10') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, no stain, no odor.
Dry	1,944	0	No	BH23	4	5		@3' Color change to light brown-reddish brown, increased consolidation.
Dry	164	0	No	BH23	10	10		@9' Color change to tan.

Total Depth



Sample Name: BH24 Date: 1/30/2024
 Site Name: Barbados State #001 SWD
 Incident Number: nAB1619656595
 Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 10'

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	4,764	0	No	BH24	0.5	0	SW-SM	(0-8') SAND, dry, tan-light brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.
Dry	540	0	No	BH24	4	5		@2' Color change to tan-light brown, gravel increased in size, no organics.
								@3' Large subround-subangular microcrystalline grey-beige dolomite boulder.
								(8-10') SAND, dry, brown, poorly graded with silt, fine grain, no stain, no odor.
Dry	112	0	No	BH24	10	10	SP-SM	

Total Depth



Sample Name: BH25

Date: 1/31/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	<112	0	No	BH25	0.5	0	SW-SM	(0-24') SAND, dry, brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.
Dry	164	0	No	BH25	4	5		@3' Color change to tan, gravel increased in size, no organics.
								@8' Color change to light brown, increased consolidation, some clay.
								@13' Abundant large subround-subangular microcrystalline grey-beige dolomite gravel.
								@17' Color change to tan.
Dry	112	0	No	BH25	10	10		
Dry	<122	0	No	BH25	15	15		
Dry	112	0	No	BH25	20	20		
Dry	<112	0	No	BH25	24	24		
Total Depth								



Sample Name: BH26

Date: 1/31/2024

Site Name: Barbados State #001 SWD

Incident Number: nAB1619656595

Job Number: 18172

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: GM

Method: HSA

Site Coordinates: 32.34652,-104.30874

Hole Diameter: 3.75"

Total Depth: 24'

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	<112	0	No	BH26	0.5	0	SW-SM	(0-24') SAND, dry, brown, well graded with silt, fine-coarse grain, abundant small-large subround gravel, trace organics, no stain, no odor.
Dry	<112	0	No	BH26	4	5		@2' Large subround boulders.
								@8' Color change to brown, increased consolidation, some clay, trace small subround gravel, no boulders.
								@14' Color change to tan, abundant large subround-subangular microcrystalline grey-beige dolomite gravel.
Dry	<112	0	No	BH26	10	10		
Dry	<122	0	No	BH26	15	15		
Dry	<112	0	No	BH26	20	20		
Dry	<112	0	No	BH26	24	24		
Total Depth								

APPENDIX E

Photographic Log

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



**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Barbados State #001 SWD

Incident Number nAB1619656595

**Photograph 1****Date: 01/22/2024**

Description: Southeastern view of Delineation activities near BH02.

**Photograph 2****Date: 01/23/2024**

Description: Western view of Delineation activities near BH06.

**Photograph 3****Date: 01/25/2024**

Description: Northeastern view of Delineation activities near BH16.

**Photograph 4****Date: 01/29/2024**

Description: Southeastern view of Delineation activities near BH18.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

Barbados State #001 SWD

Incident Number nAB1619656595

**Photograph 5****Date: 01/30/2024**

Description: Southwestern view of Delineation activities near BH23.

**Photograph 6****Date: 01/31/2024**

Description: Southwestern view of Delineation activities near BH25.

**Photograph 7****Date: 02/05/2024**

Description: Southeastern view of Delineation activities near BH20.

**Photograph 8****Date: 02/06/2024**

Description: Eastern view of Delineation activities near BH21.

APPENDIX F

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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 - nAB161956595									
BH01	07/06/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,060
BH01	07/06/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	434
BH01	07/06/2023	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH01	07/06/2023	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,840
BH01	07/06/2023	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,790
BH01	07/06/2023	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,320
BH01	07/06/2023	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,210
BH01	01/24/2024	22	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	248
BH01	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH02	07/06/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,480
BH02	07/06/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,040
BH02	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	258
BH02	01/24/2024	14	<0.0250	<0.0500	<20.0	78.1	<50.0	78.1	179
BH02	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,430
BH02	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,790
BH03	01/24/2024	0.5	<0.0250	<0.0500	<20.0	26.8	<50.0	26.8	5,020
BH03	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	693
BH03	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH03	01/24/2024	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,840
BH03	01/24/2024	19	<0.0250	<0.0500	<20.0	29.5	<50.0	29.5	249
BH03	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,860
BH04	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	988
BH04	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,850
BH04	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,080
BH04	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	252
BH04	02/05/2024	24	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	239
BH04	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	204
BH05	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,120
BH05	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	461
BH05	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	246
BH05	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	175
BH05	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,430
BH05	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	348
BH06	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	93.8
BH06	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	211
BH06	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	79.2
BH06	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	142
BH06	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	656
BH06	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,010
BH06	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH07	01/24/2024	0.5	<0.0250	<0.0500	<20.0	1,810	1,060	2,870	2,800
BH07	01/24/2024	4	<0.0250	<0.0500	<20.0	165	122	287	484
BH07	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	129
BH07	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	302
BH07	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	576



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH08	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,060
BH08	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	279
BH08	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	162
BH08	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	409
BH08	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	311
BH08	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	791
BH08	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	489
BH09	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,330
BH09	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,200
BH09	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,610
BH09	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH09	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	259
BH09	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	288
BH10	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,680
BH10	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,430
BH10	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,040
BH10	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,410
BH10	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	791
BH10	02/05/2024	24	<0.0250	<0.0500	<20.0	27.1	<50.0	27.1	<200
BH10	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH11	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,780
BH11	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	902
BH11	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,570
BH11	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	956
BH11	01/24/2024	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	436
BH11	02/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	544
BH11	02/05/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	276



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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)
NMOCB Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
BH12	01/24/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,270
BH12	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	133
BH12	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,500
BH12	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	430
BH12	01/24/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH12	01/24/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	339
BH13	01/24/2024	0.5	<0.0250	<0.0500	<20.0	145	<250	145	4,000
BH13	01/24/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	138
BH13	01/24/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	455
BH13	01/24/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	02/06/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH13	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	239
BH13	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	237
BH14	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,670
BH14	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH14	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,550
BH14	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	734
BH14	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	424
BH14	01/25/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	180
BH15	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,830
BH15	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,650
BH15	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	198
BH15	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	262
BH15	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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)
NMOCB Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
BH16	01/25/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,660
BH16	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,250
BH16	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,580
BH16	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	522
BH16	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH17	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH17	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	98.6
BH17	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	176
BH17	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	532
BH17	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	291
BH17	01/30/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	242
BH18	01/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH18	01/29/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	63.5
BH18	01/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH18	01/29/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	281
BH19	01/25/2024	0.5	<0.0250	<0.0500	<20.0	39.8	<50.0	39.8	4,320
BH19	01/25/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,970
BH19	01/25/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,250
BH19	01/25/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	3,290
BH19	01/25/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,630
BH19	01/25/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH20	01/29/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH20	01/29/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	99.9
BH20	01/29/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,530
BH20	01/29/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,060
BH20	01/29/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	962
BH20	02/05/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	328
BH20	02/05/2024	29	<0.0260	<0.0520	<20.8	<25.0	<50.0	<50.0	252
BH21	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH21	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	72.1
BH21	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,250
BH21	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,790
BH21	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH21	02/06/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH21	02/06/2024	29	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<200
BH22	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	5,040
BH22	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	312
BH22	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	134
BH22	01/30/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	106
BH22	01/30/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH22	01/30/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<100
BH23	01/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	4,340
BH23	01/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	2,550
BH23	01/30/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	338
BH24	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	6,150
BH24	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	756
BH24	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	283



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
Barbados State #001 SWD
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
BH25	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	46.5
BH25	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	166
BH25	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	449
BH25	01/31/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	116
BH25	01/31/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	136
BH25	01/31/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	49.5
BH26	01/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<20.0
BH26	01/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	45.6
BH26	01/31/2024	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	131
BH26	01/31/2024	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	61.1
BH26	01/31/2024	20	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	73.7
BH26	01/31/2024	24	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	45.9

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 Standard¹ for Soils Impacted by a Release¹ 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

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



Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E307018

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307018
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 0.5'	5
BHO1 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported: 03/13/24 16:30
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
BH01 0.5'	E307018-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 4'	E307018-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:30:00PM

BH01 0.5'

E307018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.7 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328010	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>	94.3 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	4060	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:30:00PM

BHO1 4'

E307018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.3 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2328010
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>		90.8 %	50-200	07/10/23	07/10/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2328008
Chloride	434	20.0	1	07/10/23	07/10/23	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/13/2024 4:30:00PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1)

Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1)

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1)

Source: E307016-03

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

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 (2328010-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

LCS (2328010-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2328010-MS1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	20100	1250	250	21400	NR	38-132			M4
Surrogate: n-Nonane	64.7		50.0		129	50-200			

Matrix Spike Dup (2328010-MSD1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	21000	1250	250	21400	NR	38-132	4.67	20	M4
Surrogate: n-Nonane	66.9		50.0		134	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:30:00PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:30

- 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: Barbados State #001 SWD	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Buyer	Address: 5315 Buena Vista Dr.		E307018		D1058-0001					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: (575) 200-6754	Email: jim.raley@dvn.com												
Email: Devon-team@etechenv.com	WO: N/A												
Collected by: Edyte Konan	Incident ID: nAB1619656595												
			State										
			NM CO UT AZ TX										

[illegible]**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>Edgite Roman</i>	Date 07/06/2023	Time 15:10	Received by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1510
Relinquished by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1630	Received by: (Signature) <i>Carlton Man</i>	Date 7/10/23	Time 8:10
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

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: 7/10/2023 9:07:26AM

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:	07/10/23 08:10	Work Order ID:	E307018
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:05	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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: Barbados State #001 SWD

Work Order: E307019

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307019
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 8'	5
BH01 12'	6
BH01 16'	7
BH01 18'	8
BH01 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 03/13/24 16:28
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
BH01 8'	E307019-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 12'	E307019-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 16'	E307019-03A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 18'	E307019-04A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH01 20'	E307019-05A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 8'

E307019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328015	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>	95.0 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	1060	20.0	1	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 12'

E307019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.0 %	70-130	07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/11/23	07/11/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2328008
Chloride	1840	20.0	1	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 16'

E307019-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	2790	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 18'

E307019-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328015
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	2320	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:28:44PM

BH01 20'

E307019-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2328015	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/23	07/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/23	07/11/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		07/11/23	07/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	1210	200	10	07/10/23	07/10/23	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

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 (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1) Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2) Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2) Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328015-BLK1)					Prepared: 07/11/23 Analyzed: 07/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2328015-BS1)					Prepared: 07/11/23 Analyzed: 07/11/23				
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike (2328015-MS1)					Source: E307023-06		Prepared: 07/11/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

Matrix Spike Dup (2328015-MSD1)					Source: E307023-06		Prepared: 07/11/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	0.881	20	
Surrogate: n-Nonane	43.2		50.0		86.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:28:44PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:28

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E307019		Job Number 01058-0007		CWA	
Project Manager: Anna Buyer		Address: 5315 Buena Vista Dr.						SDWA	
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220						5 day TAT	
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502						RCRA	
Phone: (575) 200-6754		Email: jim.raley@dvn.com						State	
Email: Devon-team@etechnv.com		WO: N/A						NM CO UT AZ TX	
Collected by: Edyte Konan		Incident ID: nAB1619656595							

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	BDOC NM	TX GDOC	Remarks
8:50	7/6/2023	S	1	PH01	1	8'						X		
9:00	7/6/2023	S	1	PH01	2	12'						X		
9:10	7/6/2023	S	1	PH01	3	16'						X		
9:20	7/6/2023	S	1	PH01	4	18'						X		
9:30	7/6/2023	S	1	PH01	5	20'						X		

Additional Instructions:

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

Sampled by:

Relinquished by: (Signature)

Edyte Konan

Date

07/06/2023

Time

15:10

Received by: (Signature)

Michelle Gonzales

Date

07-06-23

Time

1510

Relinquished by: (Signature)

Michelle Gonzales

Date

07-06-23

Time

1630

Received by: (Signature)

Edyte Konan

Date

7/10/23

Time

8:10

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

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

Lab Use Only

Received on ice: (Y) / N

T1

T2

T3

AVG Temp °C 4

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 7/10/2023 9:13:43AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/10/23 08:10	Work Order ID:	E307019
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:09	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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.

Project Information

Chain of Custody

Client: WPX Energy Permian LLC.				Bill To		Lab Use Only				TAT				EPA Program		
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Anna Buyer				Address: 5315 Buena Vista Dr.		E307019		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/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM	BGDOC	TX	GDOC	Remarks
Phone: (575) 200-6754				Email: jim.raley@dv.com												
Email: Devon-team@etechenv.com				WO: N/A												
Collected by: Edyte Konan				Incident ID: nAB1619656595												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											
8:50	7/6/2023	S	1	PH01 BH01	1	8'							X		per. G. Moreno 3/10/24	
9:00	7/6/2023	S	1	PH01 BH01	2	12'							X			
9:10	7/6/2023	S	1	PH01 BH01	3	16'							X			
9:20	7/6/2023	S	1	PH01 BH01	4	18'							X			
9:30	7/6/2023	S	1	PH01 BH01	5	20'							X			

Additional Instructions:

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

Sampled by:

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) Edyte Konan	Date 07/06/2023	Time 15:10	Received by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1510	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1630	Received by: (Signature) <i>Carla Man</i>	Date 7/10/23	Time 8:10	
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.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E307020

Job Number: 01058-0007

Received: 7/10/2023

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



Anna Byers
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E307020
Date Received: 7/10/2023 8:10:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2023 8:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 0.5'	5
BH02 4'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E307020-01A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.
BH02 4'	E307020-02A	Soil	07/06/23	07/10/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:27:30PM

BH02 0.5'

E307020-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Benzene	ND	0.0250	1	07/10/23	07/11/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/11/23	
Toluene	ND	0.0250	1	07/10/23	07/11/23	
o-Xylene	ND	0.0250	1	07/10/23	07/11/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/11/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		07/10/23	07/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2328002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.9 %	70-130		07/10/23	07/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2328010	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>	91.6 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2328008	
Chloride	3480	40.0	2	07/10/23	07/10/23	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/13/2024 4:27:30PM

BH02 4'

E307020-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Benzene	ND	0.0250	1	07/10/23	07/10/23	
Ethylbenzene	ND	0.0250	1	07/10/23	07/10/23	
Toluene	ND	0.0250	1	07/10/23	07/10/23	
o-Xylene	ND	0.0250	1	07/10/23	07/10/23	
p,m-Xylene	ND	0.0500	1	07/10/23	07/10/23	
Total Xylenes	ND	0.0250	1	07/10/23	07/10/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2328002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/23	07/10/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		07/10/23	07/10/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2328010
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/23	07/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/23	07/10/23	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		07/10/23	07/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2328008
Chloride	1040	20.0	1	07/10/23	07/11/23	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

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 (2328002-BLK1)

Prepared: 07/10/23 Analyzed: 07/10/23

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	7.67		8.00		95.9	70-130			

LCS (2328002-BS1)

Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.01	0.0250	5.00		80.2	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.13	0.0250	5.00		82.7	70-130			
p,m-Xylene	8.33	0.0500	10.0		83.3	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike (2328002-MS1)

Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.5	61-133			
Toluene	4.91	0.0250	5.00	ND	98.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131			
p,m-Xylene	9.90	0.0500	10.0	ND	99.0	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

Matrix Spike Dup (2328002-MSD1)

Source: E307016-03 Prepared: 07/10/23 Analyzed: 07/10/23

Benzene	5.05	0.0250	5.00	ND	101	54-133	3.70	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	3.33	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.35	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	3.19	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.28	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	3.25	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2328002-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2328002-BS2)					Prepared: 07/10/23 Analyzed: 07/10/23				
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike (2328002-MS2)					Source: E307016-03		Prepared: 07/10/23 Analyzed: 07/10/23		
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2328002-MSD2)					Source: E307016-03		Prepared: 07/10/23 Analyzed: 07/10/23		
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	5.38	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

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 (2328010-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

LCS (2328010-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2328010-MS1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	20100	1250	250	21400	NR	38-132			M4
Surrogate: n-Nonane	64.7		50.0		129	50-200			

Matrix Spike Dup (2328010-MSD1)					Source: E307010-01		Prepared: 07/10/23 Analyzed: 07/11/23		
Diesel Range Organics (C10-C28)	21000	1250	250	21400	NR	38-132	4.67	20	M4
Surrogate: n-Nonane	66.9		50.0		134	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	3/13/2024 4:27:30PM

Anions by EPA 300.0/9056A

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 (2328008-BLK1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	ND	20.0							
LCS (2328008-BS1)					Prepared: 07/10/23 Analyzed: 07/10/23				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2328008-MS1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2328008-MSD1)					Source: E307017-21		Prepared: 07/10/23 Analyzed: 07/10/23		
Chloride	260	20.0	250	ND	104	80-120	0.157	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	03/13/24 16:27

- M4Matrix 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.
- 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.

Client: WPX Energy Permian LLC.	Bill To		Lab Use Only				TAT				EPA Program			
Project: Barbados State #001 SWD	Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Buyer	Address: 5315 Buena Vista Dr.		E307020		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		.) U/DRO/ORO BY	8021	260	D10	300.0	NM	TX	State				
Phone: (575) 200-6754	Email: jim.raley@divn.com									NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com	WO: N/A													
Collected by: Edyte Konan	Incident ID: nAB1619656595													

[illegible]

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:

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>Edyfe Roman</i>	Date 07/06/2023	Time 15:10	Received by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1510	Lab Use Only Received on Ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) Michelle Gonzales	Date 07-06-23	Time 1630	Received by: (Signature) <i>Authur Man</i>	Date 7/10/23	Time 8:10	
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 Analytical Laboratory

Printed: 7/10/2023 9:28:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	07/10/23 08:10	Work Order ID:	E307020
Phone:	(575) 200-6754	Date Logged In:	07/10/23 09:20	Logged In By:	Caitlin Mars
Email:	anna@etechnv.vom	Due Date:	07/14/23 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.

[illegible]

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401165

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401165
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 22'	5
BH01 24'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 22'	E401165-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH01 24'	E401165-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:11:51PM
--	--	--

BH01 22'

E401165-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	109 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130		01/26/24	01/30/24	
Surrogate: Toluene-d8	109 %	70-130		01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405002
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
Surrogate: n-Nonane	82.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	248	100	5	01/26/24	01/27/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:11:51PM

BH01 24'

E401165-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405002
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
Surrogate: n-Nonane		85.4 %	50-200	01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	ND	200	10	01/26/24	01/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2404054-BLK1)Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)Source: E401158-03Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)Source: E401158-03Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2405002-BLK1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:11:51PM

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 (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:11

- 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.





Envirotech Analytical Laboratory

Printed: 1/26/2024 12:16:47PM

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:	01/26/24 06:30	Work Order ID:	E401165
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:19	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401166

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401166
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 10'	5
BH02 14'	6
BH02 20'	7
BH02 24'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 10'	E401166-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 14'	E401166-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 20'	E401166-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH02 24'	E401166-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:39:40PM
--	--	---------------------------------

BH02 10'

E401166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
Surrogate: n-Nonane	82.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	258	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:39:40PM

BH02 14'

E401166-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	78.1	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	79.1 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	179	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:39:40PM

BH02 20'

E401166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	83.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2430	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:39:40PM

BH02 24'

E401166-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	72.1 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	1790	40.0	2	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1)

Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1)

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1)

Source: E401164-03

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1)

Source: E401164-03

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

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 (2405002-BLK1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1) Source: E401164-03 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:39:40PM

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 (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:39

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#			Job Number			1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 401166			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	TDS	Cation/Anion	BGDOC NM		GDOC TX	State					
Phone: 832-541-7719				Email: jim.raley@dvn.com															NM	CO	UT	AZ	TX	
Email: Devon-team@etechenv.com				WBS/WO: 21196155															x					
Collected by: Gilbert Moreno				Incident ID: nAB161956595																Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
9:10	1.24.24	S	1	BH02	1	10'									X									
9:15	1.24.24	S	1	BH02	2	14'									X									
9:20	1.24.24	S	1	BH02	3	20'									X									
9:25	1.24.24	S	1	BH02	4	24'									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>Gilbert Moreno</i> Date 1/24/24 Time 6:52												Received by: (Signature) <i>Michelle Gough</i> Date 1-24-24 Time 1852												
Relinquished by: (Signature) <i>Michelle Gough</i> Date 1-25-24 Time 1400												Received by: (Signature) <i>Jane Smith</i> Date 1-25-24 Time 1630												
Relinquished by: (Signature) <i>Jane Smith</i> Date 1-25-24 Time 2330												Received by: (Signature) <i>Kyle R Heier</i> Date 1-26-24 Time 0630												
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: 1/26/2024 11:53:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401166
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E401159

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401159
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH03 0.5'	5
BH03 4'	6
BH03 10'	7
BH03 14'	8
BH03 19'	9
BH03 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E401159-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 4'	E401159-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 10'	E401159-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 14'	E401159-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 19'	E401159-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH03 24'	E401159-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:09:43PM
--	--	--

BH03 0.5'

E401159-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	110 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	110 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	108 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	26.8	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	112 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	5020	100	5	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 4'

E401159-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		111 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	693	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 10'

E401159-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		111 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1010	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 14'

E401159-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		110 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1840	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 19'

E401159-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	29.5	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	249	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:09:43PM

BH03 24'

E401159-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		109 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		109 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		112 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	ND	200	10	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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 (2404054-BLK1) Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1) Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404062-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/27/24

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:09:43PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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

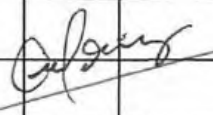
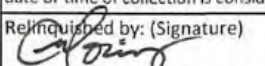
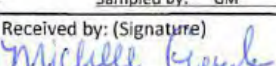
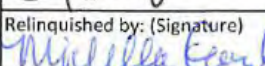
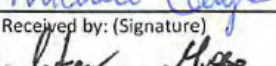
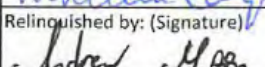
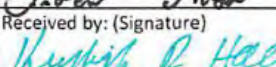
WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:09

- 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: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E401159		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719					Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WBS/WO: 21196155												x					
Collected by: Gilbert Moreno					Incident ID: nAB161956595												Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:25	1.24.24	S	1	BH03	1	0.5'								X								
9:30	1.24.24	S	1	BH03	2	4'								X								
9:35	1.24.24	S	1	BH03	3	10'								X								
9:40	1.24.24	S	1	BH03	4	14'								X								
9:45	1.24.24	S	1	BH03	5	19'								X								
9:50	1.24.24	S	1	BH03	6	24'								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: GM																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
		1/24/24		6:52				1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y / N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3										
		1-25-24		1400				1-25-24		1630												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C										
		1-25-24		2330				1-26-24		0630		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: 1/29/2024 1:39:36PM

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:	01/26/24 06:30	Work Order ID:	E401159
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:16	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E401161

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401161
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 0.5'	5
BH04 4'	6
BH04 10'	7
BH04 15'	8
BH04 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E401161-01A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 4'	E401161-02A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 10'	E401161-03A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 15'	E401161-04A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.
BH04 20'	E401161-05A	Solid	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 0.5'

E401161-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	113 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	1860	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 4'

E401161-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	988	20.0	1	01/26/24	01/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 1/31/2024 4:20:53PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH04 10'

E401161-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	4850	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 15'

E401161-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	4080	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:20:53PM

BH04 20'

E401161-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	2010	40.0	2	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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 (2404062-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/27/24

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:20:53PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:20

- 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

[illegible]

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: GM

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>Cabana</i>	Date 1/24/24	Time 6:52	Received by: (Signature) <i>Michelle Gayle</i>	Date 1-24-24	Time 1852	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gayle</i>	Date 1-25-24	Time 1400	Received by: (Signature) <i>Andrew Mello</i>	Date 1-25-24	Time 1630	
Relinquished by: (Signature) <i>Andrew Mello</i>	Date 1-25-24	Time 2330	Received by: (Signature) <i>Thuyphuong R. Hall</i>	Date 1-26-24	Time 0630	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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: 1/29/2024 1:31:27PM

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:	01/26/24 06:30	Work Order ID:	E401161
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:17	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402079

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402079
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 24'	5
BH04 29'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 24'	E402079-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH04 29'	E402079-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:45:18PM

BH04 24'

E402079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	25.2	25.0	1	02/09/24	02/10/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406085	
Chloride	239	200	10	02/08/24	02/08/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:45:18PM

BH04 29'

E402079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406085
Chloride	204	200	10	02/08/24	02/08/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:45:18PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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 (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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 (2406099-BLK1) Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1) Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1) Source: E402065-02 Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1) Source: E402065-02 Prepared: 02/09/24 Analyzed: 02/10/24

Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:45:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406085-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406085-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406085-MS1)					Source: E402074-03		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	3600	200	250	3210	155	80-120			M4
Matrix Spike Dup (2406085-MSD1)					Source: E402074-03		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	3430	200	250	3210	88.2	80-120	4.73	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:45

- 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.
- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- 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: 2/8/2024 8:18:16AM

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:	02/08/24 06:00	Work Order ID:	E402079
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:38	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401169

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401169
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH05 0.5'	5
BH05 4'	6
BH05 10'	7
BH05 15'	8
BH05 19'	9
BH05 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 02/02/24 14:43
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E401169-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 4'	E401169-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 10'	E401169-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 15'	E401169-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 19'	E401169-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH05 24'	E401169-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:43:30PM
--	--	--

BH05 0.5'

E401169-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	81.7 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	4120	40.0	2	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 4'

E401169-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	82.6 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	461	20.0	1	01/29/24	01/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:43:30PM
--	--	---------------------------------

BH05 10'

E401169-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	246	20.0	1	01/29/24	01/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:43:30PM
--	--	---------------------------------

BH05 15'

E401169-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	175	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:43:30PM

BH05 19'

E401169-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	1430	20.0	1	01/29/24	01/29/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:43:30PM
--	--	---------------------------------

BH05 24'

E401169-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.0 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	348	200	10	01/29/24	01/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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 (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

LCS (2404056-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	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	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2404056-MS1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2404056-MSD1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	0.443	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	0.247	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.322	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	0.260	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.300	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.287	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

LCS (2404056-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2404056-MS2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

Matrix Spike Dup (2404056-MSD2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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 (2404064-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1)					Source: E401169-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1)					Source: E401169-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:43:30PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405016-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	ND	20.0							
LCS (2405016-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2405016-MS1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	749	20.0	250	461	115	80-120			
Matrix Spike Dup (2405016-MSD1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	739	20.0	250	461	111	80-120	1.37	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:43

- 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: Barbados State #001 SWD	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA
Project Manager: Gilbert Moreno	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: 832-541-7719	Email: jim.raley@dvn.com			State
Email: Devon-team@etechnv.com	WBS/WO: 21196155			NM CO UT AZ TX
Collected by: Gilbert Moreno	Incident ID: nAB161956595			x

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
10:20	1.24.24	S	1	BH05	1	0.5'								X		
10:25	1.24.24	S	1	BH05	2	4'								X		
10:30	1.24.24	S	1	BH05	3	10'								X		
10:35	1.24.24	S	1	BH05	4	15'								X		
10:40	1.24.24	S	1	BH05	5	19'								X		
10:45	1.24.24	S	1	BH05	6	24'								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: GM

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>Calvin</i>	1/24/24	6:52	<i>Micellee Gough</i>	1-24-24	1852	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
<i>Micellee Gough</i>	1-25-24	1400	<i>Andrew Hall</i>	1-25-24	1630	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
<i>Andrew Hall</i>	1-25-24	2330	<i>Kayla R Hall</i>	1-26-24	0630	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: 1/26/2024 1:35:11PM

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	Date Received:	01/26/24 06:30	Work Order ID:	E401169
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:21	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401162

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401162
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 0.5'	5
BH06 4'	6
BH06 10'	7
BH06 15'	8
BH06 20'	9
BH06 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 01/31/24 16:22
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 0.5'	E401162-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 4'	E401162-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 10'	E401162-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 15'	E401162-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 20'	E401162-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH06 24'	E401162-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:22:38PM
--	--	---

BH06 0.5'

E401162-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>	87.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	93.8	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 4'

E401162-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	77.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	211	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 10'

E401162-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	79.2	20.0	1	01/26/24	01/26/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:22:38PM
--	--	----------------------------------

BH06 15'

E401162-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	80.3 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	142	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:22:38PM

BH06 20'

E401162-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	656	20.0	1	01/26/24	01/26/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 1/31/2024 4:22:38PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH06 24'

E401162-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	82.7 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	1010	20.0	1	01/26/24	01/26/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)Source: E401161-01Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)Source: E401161-01Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:22:38PM

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 (2404065-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404065-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)					Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	469	20.0	250	211	103	80-120	3.65	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

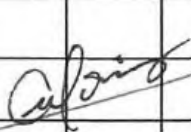
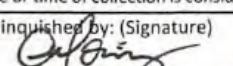
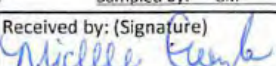
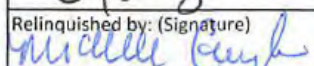
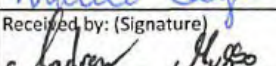
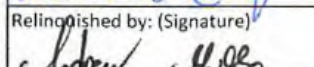
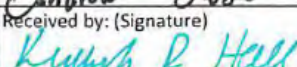
WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:22

- 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.



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only				TAT				EPA Program										
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA									
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401162		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 by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GD								
Phone: 832-541-7719					Email: jim.raley@divn.com													State							
Email: Devon-team@etechnv.com					WBS/WO: 21196155													NM CO UT AZ TX							
Collected by: Gilbert Moreno					Incident ID: nAB161956595																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																			
11:00	1.24.24	S	1	BH06	1	0.5'								X											
11:05	1.24.24	S	1	BH06	2	4'								X											
11:10	1.24.24	S	1	BH06	3	10'								X											
11:15	1.24.24	S	1	BH06	4	15'								X											
11:20	1.24.24	S	1	BH06	5	20'								X											
11:25	1.24.24	S	1	BH06	6	24'								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: GM																									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only													
		1/24/24		6:52				1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3													
		1-25-24		1400				1-25-24		1630															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C													
		1-25-24		2330				1-26-24		0630		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: 1/29/2024 1:27:11PM

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	Date Received:	01/26/24 06:30	Work Order ID:	E401162
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E402081

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402081
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 29'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 29'	E402081-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:42:31PM
--	--	---

BH06 29'

E402081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2407018
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/24	02/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/24	02/12/24	
Surrogate: n-Nonane	87.7 %	50-200		02/12/24	02/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	423	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:42:31PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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 (2407018-BLK1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

LCS (2407018-BS1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	214	25.0	250		85.4	38-132			
Surrogate: n-Nonane	39.8		50.0		79.7	50-200			

Matrix Spike (2407018-MS1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	877	25.0	250	707	68.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			

Matrix Spike Dup (2407018-MSD1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	938	25.0	250	707	92.5	38-132	6.72	20	
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:42:31PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406107-BLK1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	ND	20.0							
LCS (2406107-BS1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:42

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:13:40AM

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:	02/08/24 06:00	Work Order ID:	E402081
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:40	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E402082

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402082
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06 29'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 29'	E402082-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 2:07:15PM
--	--	---

BH06 29'

E402082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2407018
Diesel Range Organics (C10-C28)	ND	25.0	1	02/12/24	02/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/12/24	02/13/24	
Surrogate: n-Nonane	85.3 %	50-200		02/12/24	02/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2406107
Chloride	ND	200	10	02/09/24	02/10/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)Source: E402082-01Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)Source: E402082-01Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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 (2407018-BLK1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

LCS (2407018-BS1)					Prepared: 02/12/24 Analyzed: 02/12/24				
Diesel Range Organics (C10-C28)	214	25.0	250		85.4	38-132			
Surrogate: n-Nonane	39.8		50.0		79.7	50-200			

Matrix Spike (2407018-MS1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	877	25.0	250	707	68.1	38-132			
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			

Matrix Spike Dup (2407018-MSD1)					Source: E402075-23		Prepared: 02/12/24 Analyzed: 02/12/24		
Diesel Range Organics (C10-C28)	938	25.0	250	707	92.5	38-132	6.72	20	
Surrogate: n-Nonane	42.5		50.0		85.1	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 2:07:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406107-BLK1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	ND	20.0							
LCS (2406107-BS1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 14:07

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

[illegible]

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: GM

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>E. G. King</i>	Date 2.7.24	Time 10:45	Received by: (Signature) <i>Michelle Kemp</i>	Date 2-7-24	Time 1045	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature) <i>Michelle Kemp</i>	Date 2-7-24	Time 1600	Received by: (Signature) <i>Andrew Moss</i>	Date 2-7-24	Time 1800	
Relinquished by: (Signature) <i>Andrew Moss</i>	Date 2-7-24	Time 2400	Received by: (Signature) <i>Kristin R. Hall</i>	Date 2-8-24	Time 0600	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				AVG Temp °C <u>4</u>		
				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		

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



envirotech

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:10:58AM

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:	02/08/24 06:00	Work Order ID:	E402082
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:40	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401164

Job Number: 01058-0007

Received: 1/26/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401164
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH07 0.5'	5
BH07 4'	6
BH07 10'	7
BH07 15'	8
BH07 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 15:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 0.5'	E401164-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 4'	E401164-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 10'	E401164-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 15'	E401164-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH07 19'	E401164-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 0.5'

E401164-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	1810	125	5	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	1060	250	5	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	84.4 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2800	40.0	2	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 3:48:21PM
--	--	---------------------------------

BH07 4'

E401164-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	165	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	122	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	84.4 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	484	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 3:48:21PM
--	--	---------------------------------

BH07 10'

E401164-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	82.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	129	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 3:48:21PM

BH07 15'

E401164-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	81.3 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	302	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 3:48:21PM
--	--	---------------------------------

BH07 19'

E401164-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
Surrogate: n-Nonane	77.5 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	576	20.0	1	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 3:48:21PM
--	--	---------------------------------

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1)

Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1)

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1)

Source: E401164-03

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1)

Source: E401164-03

Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405002-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 3:48:21PM

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 (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 15:48

- 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.



Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program							
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard		CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401164		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/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	State					
Phone: 832-541-7719				Email: jim.raley@dvnm.com														NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x					
Collected by: Gilbert Moreno				Incident ID: nAB161956595																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks					
11:30	1.24.24	S	1	BH07	1	0.5'									X								
11:35	1.24.24	S	1	BH07	2	4'									X								
11:40	1.24.24	S	1	BH07	3	10'									X								
11:45	1.24.24	S	1	BH07	4	15'									X								
11:50	1.24.24	S	1	BH07	5	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.											
Sampled by: GM																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only															
[Signature]		1/24/24	6:52	[Signature]		1-24-24	1852	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
[Signature]		1-25-24	1400	[Signature]		1-25-24	1630	T1 T2 T3															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
[Signature]		1-25-24	2330	[Signature]		1-26-24	0630	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: 1/26/2024 12:27:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401164
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E401167

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401167
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH08 0.5'	5
BH08 4'	6
BH08 10'	7
BH08 15'	8
BH08 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 0.5'	E401167-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 4'	E401167-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 10'	E401167-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 15'	E401167-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH08 19'	E401167-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:40:39PM
--	--	--

BH08 0.5'

E401167-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>	85.0 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	3060	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 4'

E401167-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	279	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:40:39PM
--	--	---------------------------------

BH08 10'

E401167-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	81.4 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	162	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 2/2/2024 2:40:39PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH08 15'

E401167-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
Surrogate: n-Nonane	81.3 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	409	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:40:39PM

BH08 19'

E401167-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2404067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405002	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/30/24	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		01/29/24	01/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	311	20.0	1	01/31/24	01/31/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

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	7.39		8.00		92.4	70-130			

LCS (2404067-BS1) Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.85	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.85	0.0500	10.0		98.5	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike (2404067-MS1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	4.81	0.0250	5.00	ND	96.1	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.79	0.0250	5.00	ND	95.8	61-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	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	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

Matrix Spike Dup (2404067-MSD1) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Benzene	5.17	0.0250	5.00	ND	103	54-133	7.29	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	7.20	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	7.09	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	7.14	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	7.11	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	7.12	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404067-BLK1) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

LCS (2404067-BS2) Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2404067-MS2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2404067-MSD2) Source: E401164-03 Prepared: 01/26/24 Analyzed: 01/27/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

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 (2405002-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2405002-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Diesel Range Organics (C10-C28)	212	25.0	250		85.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2405002-MS1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132			
Surrogate: n-Nonane	40.8		50.0		81.5	50-200			

Matrix Spike Dup (2405002-MSD1)					Source: E401164-03		Prepared: 01/29/24 Analyzed: 01/29/24		
Diesel Range Organics (C10-C28)	208	25.0	250	ND	83.2	38-132	4.45	20	
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:40:39PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:40

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: WPX Energy Permian, LLC				Bill To				Lab Use Only				TAT				EPA Program							
Project: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401167		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719				Email: jim.raley@dvn.com														NM	CO	UT	AZ	TX	
Email: Devon-team@etechenv.com				WBS/WO: 21196155														x					
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
11:55	1.24.24	S	1	BH08	1	0.5'									X								
12:00	1.24.24	S	1	BH08	2	4'									X								
12:05	1.24.24	S	1	BH08	3	10'									X								
12:10	1.24.24	S	1	BH08	4	15'									X								
12:15	1.24.24	S	1	BH08	5	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: GM												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															
		1/24/24	6:52			1-24-24	1852	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3															
		1-25-24	1400			1-25-24	1630																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C															
		1-25-24	1330			1-26-24	0630	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: 1/26/2024 11:38:35AM

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:	01/26/24 06:30	Work Order ID:	E401167
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E402080

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402080
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH08 24'	5
BH08 29'	6
QC Summary Data	7
QC - Volatile Organics by EPA 8021B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
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:	Barbados State #001 SWD	Reported: 02/14/24 13:44
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
BH08 24'	E402080-01A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH08 29'	E402080-02A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:44:28PM

BH08 24'

E402080-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406109	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	98.2 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406091	
Chloride	791	20.0	1	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:44:28PM

BH08 29'

E402080-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	95.6 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406091
Chloride	489	200	10	02/08/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:44:28PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2)

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:44:28PM
--	--	----------------------------------

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 (2406109-BLK1)

Prepared: 02/09/24 Analyzed: 02/09/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2406109-BS1)

Prepared: 02/09/24 Analyzed: 02/09/24

Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike (2406109-MS1)

Source: E402007-03

Prepared: 02/09/24 Analyzed: 02/09/24

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike Dup (2406109-MSD1)

Source: E402007-03

Prepared: 02/09/24 Analyzed: 02/09/24

Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	2.33	20	
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:44:28PM

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 (2406091-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406091-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2406091-MS1)					Source: E402057-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	356	20.0	250	100	102	80-120			
Matrix Spike Dup (2406091-MSD1)					Source: E402057-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	347	20.0	250	100	98.6	80-120	2.69	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:44

- 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: 2/8/2024 8:16:15AM

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:	02/08/24 06:00	Work Order ID:	E402080
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:39	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401168

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401168
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH09 0.5'	5
BH09 4'	6
BH09 10'	7
BH09 15'	8
BH09 19'	9
BH09 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E401168-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 4'	E401168-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 10'	E401168-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 15'	E401168-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 19'	E401168-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH09 24'	E401168-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 2:42:12PM
--	--	--

BH09 0.5'

E401168-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>	114 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2330	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 4'

E401168-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	2200	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 10'

E401168-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	1610	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 15'

E401168-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	ND	200	10	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 19'

E401168-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	259	200	10	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 2:42:12PM

BH09 24'

E401168-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405014	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/29/24	01/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/29/24	01/29/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/29/24	01/29/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405005	
Chloride	288	200	10	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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 (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

LCS (2404056-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	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	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2404056-MS1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.01	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2404056-MSD1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	0.443	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	0.247	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.322	20	
o-Xylene	5.02	0.0250	5.00	ND	100	63-131	0.260	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.300	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.287	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

LCS (2404056-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2404056-MS2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

Matrix Spike Dup (2404056-MSD2) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.7	70-130	1.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405014-BLK1) Prepared: 01/29/24 Analyzed: 01/29/24

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 (2405014-BS1) Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2405014-MS1) Source: E401173-02 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.3	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Matrix Spike Dup (2405014-MSD1) Source: E401173-02 Prepared: 01/29/24 Analyzed: 01/29/24

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132	5.89	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 2:42:12PM

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 (2405005-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405005-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2405005-MS1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3320	40.0	250	3060	105	80-120			
Matrix Spike Dup (2405005-MSD1)					Source: E401167-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	3300	40.0	250	3060	98.6	80-120	0.489	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 14:42

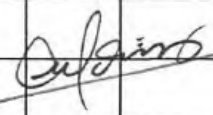
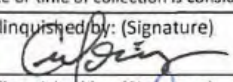
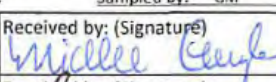
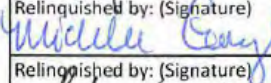
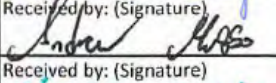
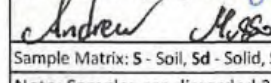
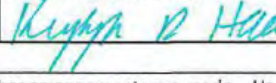
- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only				TAT				EPA Program								
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA							
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E401168		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State						
Phone: 832-541-7719					Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX		
Email: Devon-team@etechnv.com					WBS/WO: 21196155												x						
Collected by: Gilbert Moreno					Incident ID: nAB161956595												Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
12:20	1.24.24	S	1	BH09	1	0.5'								X									
12:25	1.24.24	S	1	BH09	2	4'								X									
12:30	1.24.24	S	1	BH09	3	10'								X									
12:35	1.24.24	S	1	BH09	4	15'								X									
12:40	1.24.24	S	1	BH09	5	19'								X									
12:45	1.24.24	S	1	BH09	6	24'								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															
		1-24-24	6:52			1-24-24	1852	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____															
		1-25-24	1400			1-25-24	1630																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>															
		1-25-24	2330			1-26-24	0630																
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: 1/26/2024 2:00:38PM

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:	01/26/24 06:30	Work Order ID:	E401168
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:20	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E401163

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401163
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH10 0.5'	5
BH10 4'	6
BH10 10'	7
BH10 15'	8
BH10 19'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 0.5'	E401163-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 4'	E401163-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 10'	E401163-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 15'	E401163-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH10 19'	E401163-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 0.5'

E401163-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/26/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/26/24	
Toluene	ND	0.0250	1	01/26/24	01/26/24	
o-Xylene	ND	0.0250	1	01/26/24	01/26/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/26/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/26/24	01/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/26/24	
<i>Surrogate: n-Nonane</i>						
	81.9 %	50-200		01/26/24	01/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	1680	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 4'

E401163-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	82.8 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	1430	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 10'

E401163-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2404065	
Chloride	3040	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 15'

E401163-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.4 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	2410	40.0	2	01/26/24	01/27/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:25:50PM

BH10 19'

E401163-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404072
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/24	01/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/24	01/28/24	
<i>Surrogate: n-Nonane</i>						
	76.9 %	50-200		01/27/24	01/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404065
Chloride	791	200	10	01/26/24	01/27/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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 (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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 (2404072-BLK1)					Prepared: 01/27/24 Analyzed: 01/28/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.1		50.0		78.2	50-200			

LCS (2404072-BS1)					Prepared: 01/27/24 Analyzed: 01/28/24				
Diesel Range Organics (C10-C28)	205	25.0	250		82.0	38-132			
Surrogate: n-Nonane	40.0		50.0		80.0	50-200			

Matrix Spike (2404072-MS1)					Source: E401178-10		Prepared: 01/27/24 Analyzed: 01/28/24		
Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.3	38-132			
Surrogate: n-Nonane	39.8		50.0		79.5	50-200			

Matrix Spike Dup (2404072-MSD1)					Source: E401178-10		Prepared: 01/27/24 Analyzed: 01/28/24		
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132	1.62	20	
Surrogate: n-Nonane	40.4		50.0		80.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:25:50PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404065-BLK1)				Prepared: 01/26/24 Analyzed: 01/26/24					
Chloride	ND	20.0							
LCS (2404065-BS1)				Prepared: 01/26/24 Analyzed: 01/26/24					
Chloride	247	20.0	250		98.6	90-110			
Matrix Spike (2404065-MS1)				Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24			
Chloride	486	20.0	250	211	110	80-120			
Matrix Spike Dup (2404065-MSD1)				Source: E401162-02		Prepared: 01/26/24 Analyzed: 01/26/24			
Chloride	469	20.0	250	211	103	80-120	3.65	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.

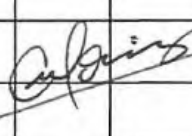

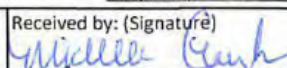
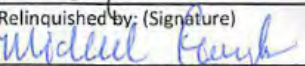
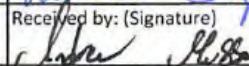
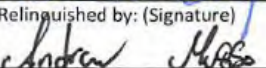
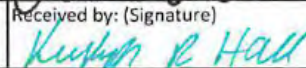


Definitions and Notes

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:25

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																		
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401163		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State																	
Phone: 832-541-7719				Email: jim.raley@dvn.com														NM	CO	UT	AZ	TX													
Email: Devon-team@etechenv.com				WBS/WO: 21196155														x																	
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																														
13:00	1.24.24	S	1	BH10	1	0.5'									X																				
13:05	1.24.24	S	1	BH10	2	4'									X																				
13:10	1.24.24	S	1	BH10	3	10'									X																				
13:15	1.24.24	S	1	BH10	4	15'									X																				
13:20	1.24.24	S	1	BH10	5	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																			
				1/24/24		6:52						1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1																			
				1-25-24		1400						1-25-24		1630		T2																			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T3																			
				1-25-24		2330						1-26-24		0630		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: 1/26/2024 12:38:58PM

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:	01/26/24 06:30	Work Order ID:	E401163
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:18	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E401160

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401160
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH11 0.5'	5
BH11 4'	6
BH11 10'	7
BH11 15'	8
BH11 19'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Barbados State #001 SWD	Reported: 02/01/24 16:10
	Project Number:	01058-0007	
	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 0.5'	E401160-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 4'	E401160-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 10'	E401160-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 15'	E401160-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH11 19'	E401160-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 0.5'

E401160-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	01/26/24	01/30/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70-130	01/26/24	01/30/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	01/26/24	01/30/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70-130	01/26/24	01/30/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1780	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 4'

E401160-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	902	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 10'

E401160-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		113 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	1570	100	5	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 15'

E401160-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		112 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	956	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:10:35PM

BH11 19'

E401160-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/30/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/30/24	
Toluene	ND	0.0250	1	01/26/24	01/30/24	
o-Xylene	ND	0.0250	1	01/26/24	01/30/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/30/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/30/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	01/26/24	01/30/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404062
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		113 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	436	200	10	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:10:35PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404062-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			

LCS (2404062-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2404062-MS1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.8		50.0		110	50-200			

Matrix Spike Dup (2404062-MSD1) Source: E401160-05 Prepared: 01/26/24 Analyzed: 01/27/24

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	3.17	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:10:35PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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

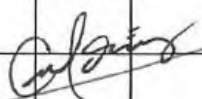
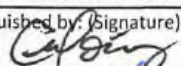
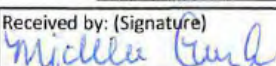
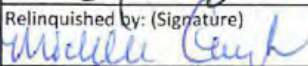
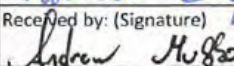
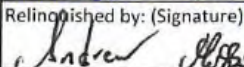

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:10

- 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: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E401160		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155												x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
13:25	1.24.24	S	1	BH11	1	0.5'							X							
13:30	1.24.24	S	1	BH11	2	4'							X							
13:35	1.24.24	S	1	BH11	3	10'							X							
13:40	1.24.24	S	1	BH11	4	15'							X							
13:45	1.24.24	S	1	BH11	5	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: GM																				
Relinquished by: (Signature) 						Date 1/24/24		Time 6:52		Received by: (Signature) 						Date 1-24-24		Time 1852		
Relinquished by: (Signature) 						Date 1-25-24		Time 1400		Received by: (Signature) 						Date 1-25-24		Time 1630		
Relinquished by: (Signature) 						Date 1-25-24		Time 2330		Received by: (Signature) 						Date 1-26-24		Time 0630		
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: 1/29/2024 1:35:20PM

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:	01/26/24 06:30	Work Order ID:	E401160
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:17	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402076

Job Number: 01058-0007

Received: 2/8/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/1/24

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: 3/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402076
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH10 24'	5
BH10 29'	6
BH11 24'	7
BH11 29'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name:	Barbados State #001 SWD	Reported: 03/01/24 15:31
	Project Number:	01058-0007	
	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 24'	E402076-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH10 29'	E402076-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH11 24'	E402076-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH11 29'	E402076-04A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 3/1/2024 3:31:22PM
--	--	--

BH10 24'

E402076-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	27.1	25.0	1	02/09/24	02/10/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
Surrogate: n-Nonane	107 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH10 29'

E402076-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH11 24'

E402076-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2406081	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	544	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
3/1/2024 3:31:22PM

BH11 29'

E402076-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Benzene	ND	0.0250	1	02/08/24	02/09/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/09/24	
Toluene	ND	0.0250	1	02/08/24	02/09/24	
o-Xylene	ND	0.0250	1	02/08/24	02/09/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/09/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2406081
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		02/08/24	02/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	276	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406081-BLK1) Prepared: 02/08/24 Analyzed: 02/09/24

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 (2406081-BS1) Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2406081-MS1) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	4.81	0.0250	5.00	ND	96.3	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133			
Toluene	4.80	0.0250	5.00	ND	96.0	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

Matrix Spike Dup (2406081-MSD1) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Benzene	5.06	0.0250	5.00	ND	101	54-133	5.08	20	
Ethylbenzene	5.04	0.0250	5.00	ND	101	61-133	5.00	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	5.08	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	5.18	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	4.93	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	5.02	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406081-BLK1) Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			

LCS (2406081-BS2) Prepared: 02/08/24 Analyzed: 02/08/24

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

Matrix Spike (2406081-MS2) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2406081-MSD2) Source: E402074-09 Prepared: 02/08/24 Analyzed: 02/09/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	3.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

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 (2406099-BLK1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	3/1/2024 3:31:22PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406107-BLK1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	ND	20.0							
LCS (2406107-BS1)				Prepared: 02/09/24 Analyzed: 02/09/24					
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)				Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24			
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	03/01/24 15:31

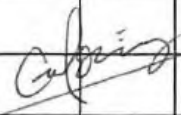
- T17 The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

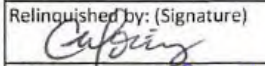
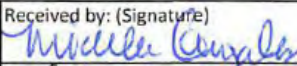
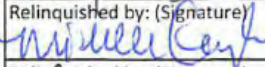
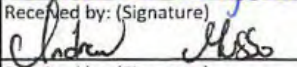
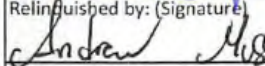
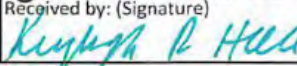
Client: WPX Energy Permian, LLC					Bill To		Lab Use Only				TAT				EPA Program							
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 402076		01058-0007					5 Day TAT								
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	TDS	Cation/Anion	BGDOC NM	TX	State					
Phone: 832-541-7719					Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WBS/WO: 21196155																	
Collected by: Gilbert Moreno					Incident ID: nAB161956595																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks					
10:00 13:20	2.5.24	S	1	BH10	1	24'									X							
10:20 13:50	2.5.24	S	1	BH10	2	29'									X							
13:00	2.6.24	S	1	BH11	3	24'									X							
13:20	2.6.24	S	1	BH11	4	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: GM

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 2-7-24	Time 10:45	Received by: (Signature) 	Date 2-7-24	Time 1045	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) 	Date 2-7-24	Time 1600	Received by: (Signature) 	Date 2-7-24	Time 1800	
Relinquished by: (Signature) 	Date 2-7-24	Time 2400	Received by: (Signature) 	Date 2-8-24	Time 0600	

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: 2/8/2024 8:24:22AM

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:	02/08/24 06:00	Work Order ID:	E402076
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:34	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401158

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/24

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: 2/1/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401158
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH12 0.5'	5
BH12 4'	6
BH12 10'	7
BH12 15'	8
BH12 20'	9
BH12 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 0.5'	E401158-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 4'	E401158-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 10'	E401158-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 15'	E401158-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 20'	E401158-05A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH12 24'	E401158-06A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:08:52PM
--	--	--

BH12 0.5'

E401158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	107 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene	109 %	70-130		01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		01/26/24	01/29/24	
Surrogate: Toluene-d8	107 %	70-130		01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane	109 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	3270	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 4'

E401158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		106 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	133	20.0	1	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 10'

E401158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	3500	40.0	2	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 15'

E401158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		111 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	430	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 20'

E401158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		108 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		108 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		108 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	ND	200	10	01/26/24	01/26/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/1/2024 4:08:52PM

BH12 24'

E401158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Benzene	ND	0.0250	1	01/26/24	01/29/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/29/24	
Toluene	ND	0.0250	1	01/26/24	01/29/24	
o-Xylene	ND	0.0250	1	01/26/24	01/29/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/29/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2404054
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/29/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/26/24	01/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	01/26/24	01/29/24	
Surrogate: Toluene-d8		107 %	70-130	01/26/24	01/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404053
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
Surrogate: n-Nonane		114 %	50-200	01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2404057
Chloride	339	200	10	01/26/24	01/26/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:08:52PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

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	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.47	0.0250	2.50		98.8	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.75	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.548		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2404054-MS1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.61	0.0250	2.50	ND	104	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.58	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD1)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	0.0607	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	1.86	27	
Toluene	2.53	0.0250	2.50	ND	101	48-130	2.26	24	
o-Xylene	2.66	0.0250	2.50	ND	107	43-135	3.38	27	
p,m-Xylene	5.33	0.0500	5.00	ND	106	43-135	4.26	27	
Total Xylenes	7.99	0.0250	7.50	ND	107	43-135	3.96	27	
Surrogate: Bromofluorobenzene	0.560		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/1/2024 4:08:52PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404054-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2404054-BS2)

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	57.0	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2404054-MS2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike Dup (2404054-MSD2)

Source: E401158-03

Prepared: 01/26/24 Analyzed: 01/29/24

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	1.59	20	
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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 (2404053-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.1	50-200			

LCS (2404053-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	204	25.0	250		81.6	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2404053-MS1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250	ND	85.8	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike Dup (2404053-MSD1) Source: E401158-03 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	235	25.0	250	ND	93.8	38-132	8.96	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/1/2024 4:08:52PM

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 (2404057-BLK1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	ND	20.0							
LCS (2404057-BS1)					Prepared: 01/26/24 Analyzed: 01/26/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2404057-MS1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	380	20.0	250	133	98.8	80-120			
Matrix Spike Dup (2404057-MSD1)					Source: E401158-02		Prepared: 01/26/24 Analyzed: 01/26/24		
Chloride	379	20.0	250	133	98.5	80-120	0.144	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/01/24 16:08

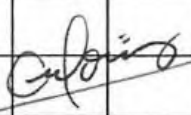
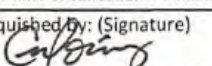
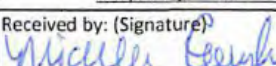
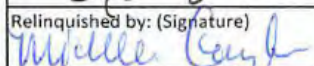
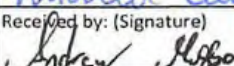
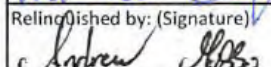
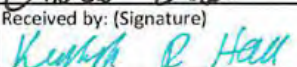
- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program											
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA										
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E401158		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	TDS	Cation/Anion	BGDOC NM	TX	GDOC									
Phone: 832-541-7719				Email: jim.raley@dm.com													State								
Email: Devon-team@etechnv.com				WBS/WO: 21196155													NM	CO	UT	AZ	TX				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																				
13:50	1.24.24	S	1	BH12	1	0.5'								X											
14:00	1.24.24	S	1	BH12	2	4'								X											
14:05	1.24.24	S	1	BH12	3	10'								X											
14:10	1.24.24	S	1	BH12	4	15'								X											
14:15	1.24.24	S	1	BH12	5	19'								X											
14:20	1.24.24	S	1	BH12	6	24'								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: GM																									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only													
		1/24/24		6:52				1-24-24		1852		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1													
		1-25-24		1400				1-25-24		1630		T2													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T3													
		1-25-24		2330				1-26-24		0630		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: 1/26/2024 2:29:24PM

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:	01/26/24 06:30	Work Order ID:	E401158
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:14	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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: 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: Barbados State #001 SWD

Work Order: E401170

Job Number: 01058-0007

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/31/24

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: 1/31/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401170
Date Received: 1/26/2024 6:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH13 0.5'	5
BH13 4'	6
BH13 10'	7
BH13 15'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH13 0.5'	E401170-01A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 4'	E401170-02A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 10'	E401170-03A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.
BH13 15'	E401170-04A	Soil	01/24/24	01/26/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 1/31/2024 4:28:15PM
--	--	---

BH13 0.5'

E401170-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.3 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404064	
Diesel Range Organics (C10-C28)	145	125	5	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	250	5	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>	87.2 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405016	
Chloride	4000	40.0	2	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 4'

E401170-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	79.7 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	138	20.0	1	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 10'

E401170-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	81.9 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	455	200	10	01/29/24	01/29/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
1/31/2024 4:28:15PM

BH13 15'

E401170-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Benzene	ND	0.0250	1	01/26/24	01/27/24	
Ethylbenzene	ND	0.0250	1	01/26/24	01/27/24	
Toluene	ND	0.0250	1	01/26/24	01/27/24	
o-Xylene	ND	0.0250	1	01/26/24	01/27/24	
p,m-Xylene	ND	0.0500	1	01/26/24	01/27/24	
Total Xylenes	ND	0.0250	1	01/26/24	01/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2404052
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/26/24	01/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/26/24	01/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2404064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/26/24	01/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/26/24	01/27/24	
<i>Surrogate: n-Nonane</i>						
	80.8 %	50-200		01/26/24	01/27/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405016
Chloride	ND	200	10	01/29/24	01/29/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

Volatile Organics by EPA 8021B

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

LCS (2404052-BS1)

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike (2404052-MS1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.38	0.0250	5.00	ND	87.7	54-133			
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	61-133			
Toluene	4.41	0.0250	5.00	ND	88.2	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.3	63-131			
p,m-Xylene	8.81	0.0500	10.0	ND	88.1	63-131			
Total Xylenes	13.2	0.0250	15.0	ND	88.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike Dup (2404052-MSD1)

Source: E401161-01

Prepared: 01/26/24 Analyzed: 01/26/24

Benzene	4.90	0.0250	5.00	ND	97.9	54-133	11.0	20	
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133	11.0	20	
Toluene	4.92	0.0250	5.00	ND	98.4	61-130	10.9	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	10.2	20	
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131	10.7	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2404052-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2404052-BS2) Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.4	70-130			

Matrix Spike (2404052-MS2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2404052-MSD2) Source: E401161-01 Prepared: 01/26/24 Analyzed: 01/26/24

Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.7	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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 (2404064-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.4		50.0		88.8	50-200			

LCS (2404064-BS1) Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	214	25.0	250		85.7	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

Matrix Spike (2404064-MS1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.0	50-200			

Matrix Spike Dup (2404064-MSD1) Source: E401169-02 Prepared: 01/26/24 Analyzed: 01/26/24

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.5	38-132	6.85	20	
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/31/2024 4:28:15PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405016-BLK1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	ND	20.0							
LCS (2405016-BS1)					Prepared: 01/29/24 Analyzed: 01/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2405016-MS1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	749	20.0	250	461	115	80-120			
Matrix Spike Dup (2405016-MSD1)					Source: E401169-02		Prepared: 01/29/24 Analyzed: 01/29/24		
Chloride	739	20.0	250	461	111	80-120	1.37	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/31/24 16:28

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#				Job Number				1D 2D 3D Standard CWA SDWA						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E401170				01058-0007				5 Day TAT						
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method				RCRA				State						
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502																		
Phone: 832-541-7719				Email: jim.raley@divn.com																		
Email: Devon-team@etechenv.com				WBS/WO: 21196155																		
Collected by: Gilbert Moreno				Incident ID: nAB161956595																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks						
15:00	1.24.24	S	1	BH13	1	0.5'								X								
15:05	1.24.24	S	1	BH13	2	4'								X								
15:10	1.24.24	S	1	BH13	3	10'								X								
15:15	1.24.24	S	1	BH13	4	15'								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: GM																						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only						
				1/24/24		6:52						1-24-24		1852		Received on ice: Y / N						
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1 T2 T3						
				1-25-24		1400						1-25-24		1630								
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C						
				1-25-24		2330						1-26-24		0630		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: 1/26/2024 11:19:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	01/26/24 06:30	Work Order ID:	E401170
Phone:	(539) 573-4018	Date Logged In:	01/25/24 15:21	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/01/24 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402078

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E402078
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH13 20'	5
BH13 24'	6
BH13 29'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/14/24 13:46
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
BH13 20'	E402078-01A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH13 24'	E402078-02A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH13 29'	E402078-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 20'

E402078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406109	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2406084	
Chloride	ND	200	10	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 24'

E402078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2406084
Chloride	239	200	10	02/08/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:46:09PM

BH13 29'

E402078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/14/24	
Toluene	ND	0.0250	1	02/08/24	02/14/24	
o-Xylene	ND	0.0250	1	02/08/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		02/08/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406109
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2406084
Chloride	237	200	10	02/08/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:46:09PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1)

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1)

Source: E402082-01

Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406109-BLK1)	Prepared: 02/09/24 Analyzed: 02/09/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

LCS (2406109-BS1)	Prepared: 02/09/24 Analyzed: 02/09/24								
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	48.6		50.0		97.2	50-200			

Matrix Spike (2406109-MS1)				Source: E402007-03	Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	36.5		50.0		73.0	50-200			

Matrix Spike Dup (2406109-MSD1)				Source: E402007-03	Prepared: 02/09/24 Analyzed: 02/09/24				
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	2.33	20	
Surrogate: n-Nonane	42.0		50.0		83.9	50-200			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:46:09PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406084-BLK1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	ND	20.0							
LCS (2406084-BS1)					Prepared: 02/08/24 Analyzed: 02/08/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2406084-MS1)					Source: E402073-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	284	100	250	ND	114	80-120			
Matrix Spike Dup (2406084-MSD1)					Source: E402073-04		Prepared: 02/08/24 Analyzed: 02/08/24		
Chloride	303	100	250	ND	121	80-120	6.44	20	M1

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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:46

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:20:21AM

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:	02/08/24 06:00	Work Order ID:	E402078
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:37	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E401205

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401205
Date Received: 1/29/2024 10:48:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 10:48:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH14 0.5'	5
BH14 4'	6
BH14 10'	7
BH14 15'	8
BH14 20'	9
BH14 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH14 0.5'	E401205-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 4'	E401205-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 10'	E401205-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 15'	E401205-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 20'	E401205-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH14 24'	E401205-06A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 0.5'

E401205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	3670	40.0	2	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 6:45:03PM
--	--	---------------------------------

BH14 4'

E401205-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1060	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 10'**E401205-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	1550	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:45:03PM

BH14 15'

E401205-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405064
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	734	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 2/2/2024 6:45:03PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH14 20'

E401205-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	424	100	5	01/31/24	01/31/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 2/2/2024 6:45:03PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH14 24'

E401205-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	01/31/24	
Ethylbenzene	ND	0.0250	1	01/30/24	01/31/24	
Toluene	ND	0.0250	1	01/30/24	01/31/24	
o-Xylene	ND	0.0250	1	01/30/24	01/31/24	
p,m-Xylene	ND	0.0500	1	01/30/24	01/31/24	
Total Xylenes	ND	0.0250	1	01/30/24	01/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	01/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		01/30/24	01/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405064	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	180	100	5	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1) Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2405035-BS2) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2405035-MS2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2405035-MSD2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

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 (2405064-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2405064-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2405064-MS1)					Source: E401187-04		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	97.9	38-132			
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

Matrix Spike Dup (2405064-MSD1)					Source: E401187-04		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132	0.549	20	
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:45:03PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:45

- 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.
- 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

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only 0153-001										TAT				EPA Program	
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401205		04100-0631					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	TDS	Cation/Anion	BGDOC NM	TX	GDOC	State				
Phone: 832-541-7719					Email: jim.raley@dmv.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com					WBS/WO: 21196155													x				
Collected by: Gilbert Moreno					Incident ID: nAB161956595													Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
8:00	1.25.24	S	1	BH14	1	0.5'									X							
8:10	1.25.24	S	1	BH14	2	4'									X							
8:20	1.25.24	S	1	BH14	3	10'									X							
8:30	1.25.24	S	1	BH14	4	15'									X							
8:40	1.25.24	S	1	BH14	5	20'									X							
8:50	1.25.24	S	1	BH14	6	24'									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) <i>Culberson</i>					Date 1/26/24		Time 0946		Received by: (Signature) <i>Michelle Gayb</i>					Date 1-26-24		Time 0946		Lab Use Only				
Relinquished by: (Signature) <i>Michelle Gayb</i>					Date 1-26-24		Time 1115		Received by: (Signature) <i>John M. 886</i>					Date 1-26-24		Time 1715		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N				
Relinquished by: (Signature) <i>Andrew M. 886</i>					Date 1-26-24		Time 2300		Received by: (Signature) <i>AN</i>					Date 29-1-24		Time 10:48		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												
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: 1/29/2024 3:06:02PM

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:	01/29/24 10:48	Work Order ID:	E401205
Phone:	(539) 573-4018	Date Logged In:	01/29/24 10:48	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? No
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: Barbados State #001 SWD

Work Order: E401206

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401206
Date Received: 1/29/2024 10:55:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 10:55:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH15 0.5'	5
BH15 4'	6
BH15 10'	7
BH15 15'	8
BH15 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/02/24 18:47
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
BH15 0.5'	E401206-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 4'	E401206-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 10'	E401206-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 15'	E401206-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH15 20'	E401206-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 6:47:22PM
--	--	---------------------------------

BH15 0.5'

E401206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
Surrogate: n-Nonane	86.8 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	4830	40.0	2	01/31/24	01/31/24	

Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 4'

E401206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	2650	20.0	1	01/31/24	01/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/2/2024 6:47:22PM
--	--	---------------------------------

BH15 10'

E401206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	86.3 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	198	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 15'

E401206-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	87.4 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	262	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:47:22PM

BH15 20'

E401206-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	85.3 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	ND	100	5	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1) Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2405035-BS2) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2405035-MS2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2405035-MSD2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

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 (2405066-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			

LCS (2405066-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

Matrix Spike (2405066-MS1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike Dup (2405066-MSD1)					Source: E401207-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	17.7	20	
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:47:22PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:47

- 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.

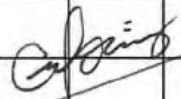
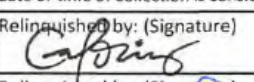
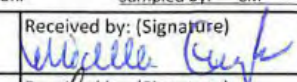
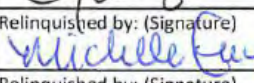
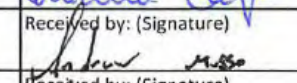
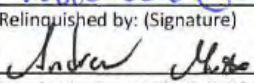
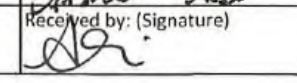
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program						
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 401206		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechenv.com				WBS/WO: 21196155												x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
11:30	1.25.24	S	1	BH15	1	0.5'							X							
11:40	1.25.24	S	1	BH15	2	4'							X							
11:50	1.25.24	S	1	BH15	3	10'							X							
12:00	1.25.24	S	1	BH15	4	15'							X							
12:10	1.25.24	S	1	BH15	5	20'							X							
																				
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										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				
				1/26/24		0946						1-26-24		0946		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T1				
				1-26-24		1715						1-26-24		1715		T2				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		T3				
				1-26-24		2300						1-29-24		10:55		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: 1/29/2024 3:26:58PM

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:	01/29/24 10:55	Work Order ID:	E401206
Phone:	(539) 573-4018	Date Logged In:	01/29/24 10:55	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E401207

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/2/24

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: 2/2/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E401207
Date Received: 1/29/2024 11:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 11:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH16 0.5'	5
BH16 4'	6
BH16 10'	7
BH16 15'	8
BH16 20'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/02/24 18:48
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
BH16 0.5'	E401207-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 4'	E401207-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 10'	E401207-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 15'	E401207-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH16 20'	E401207-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 0.5'

E401207-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	84.7 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1660	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 4'

E401207-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.8 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>	87.9 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1250	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 10'

E401207-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405066	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	87.5 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405057	
Chloride	1580	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 15'

E401207-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	88.4 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	522	100	5	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/2/2024 6:48:36PM

BH16 20'

E401207-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405035
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405066
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	02/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	02/01/24	
<i>Surrogate: n-Nonane</i>						
	88.4 %	50-200		01/31/24	02/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405057
Chloride	ND	100	5	01/31/24	01/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1)Prepared: 01/30/24 Analyzed: 01/31/24

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	7.89		8.00		98.6	70-130			

LCS (2405035-BS1)Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130			

Matrix Spike (2405035-MS1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.3	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.78	0.0250	5.00	ND	95.6	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	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2405035-MSD1)Source: E401205-01Prepared: 01/30/24 Analyzed: 01/31/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	3.89	20	
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133	3.41	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.47	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.60	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	3.15	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	3.30	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405035-BLK1) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2405035-BS2) Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

Matrix Spike (2405035-MS2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

Matrix Spike Dup (2405035-MSD2) Source: E401205-01 Prepared: 01/30/24 Analyzed: 01/31/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130	3.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

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 (2405066-BLK1) Prepared: 01/31/24 Analyzed: 01/31/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			

LCS (2405066-BS1) Prepared: 01/31/24 Analyzed: 01/31/24

Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

Matrix Spike (2405066-MS1) Source: E401207-01 Prepared: 01/31/24 Analyzed: 01/31/24

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			

Matrix Spike Dup (2405066-MSD1) Source: E401207-01 Prepared: 01/31/24 Analyzed: 01/31/24

Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	17.7	20	
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/2/2024 6:48:36PM

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 (2405057-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405057-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2405057-MS1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1660	20.0	250	1550	43.7	80-120			M4
Matrix Spike Dup (2405057-MSD1)					Source: E401205-03		Prepared: 01/31/24 Analyzed: 01/31/24		
Chloride	1900	20.0	250	1550	139	80-120	13.4	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/02/24 18:48

- 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.
- 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.

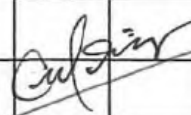
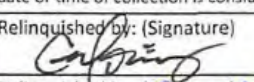
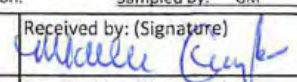
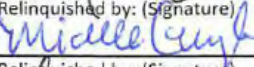
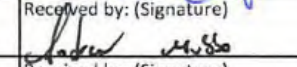
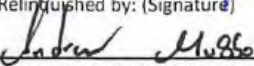
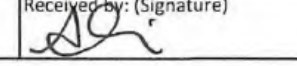
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC				Bill To		Lab Use Only				TAT				EPA Program							
Project: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E 401207		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	TDS	Cation/Anion	BGDOC NM	TX	State					
Phone: 832-541-7719				Email: jim.raley@dvn.com													NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155													x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595		Remarks															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
13:00	1.25.24	S	1	BH16	1	0.5'							X								
13:10	1.25.24	S	1	BH16	2	4'							X								
13:20	1.25.24	S	1	BH16	3	10'							X								
13:30	1.25.24	S	1	BH16	4	15'							X								
13:40	1.25.24	S	1	BH16	5	20'							X								
																					
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM										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													
		1-26-24	0946			1-26-24	0946	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____													
		1-26-24	1715			1-26-24	1715														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
		1-26-24	2300			1-29-24	11:00														
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

Envirotech Analytical Laboratory

Printed: 1/29/2024 3:36:36PM

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:	01/29/24 11:00	Work Order ID:	E401207
Phone:	(539) 573-4018	Date Logged In:	01/29/24 11:00	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E402036

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402036
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH17 0.5'	5
BH17 4'	6
BH17 10'	7
BH17 15'	8
BH17 20'	9
BH17 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 02/08/24 13:29
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH17 0.5'	E402036-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 4'	E402036-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 10'	E402036-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 15'	E402036-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 20'	E402036-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH17 24'	E402036-06A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:29:42PM
--	--	--

BH17 0.5'

E402036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.4 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>	96.2 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 4'

E402036-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>	97.2 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	98.6	20.0	1	02/03/24	02/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 2/8/2024 1:29:42PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

BH17 10'

E402036-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	94.1 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	176	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 15'

E402036-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	93.7 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	532	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 20'

E402036-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	291	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:29:42PM

BH17 24'

E402036-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	91.5 %	50-200		02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	242	200	10	02/03/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405166-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

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 (2406022-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:29:42PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:29

- 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: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: WPX Energy Permian, LLC	Bill To	Lab Use Only	TAT	EPA Program				
Project: Barbados State #001 SWD	Attention: Jim Raley	Lab WO#	1D 2D 3D Standard	CWA SDWA				
Project Manager: Gilbert Moreno	Address: 5315 Buena Vista Dr.	E402036	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 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TDS Cation/Anion BGDOC NM GDOC TX	State					RCRA
Phone: 832-541-7719	Email: jim.raley@dvn.com		NM CO UT AZ TX					
mail: Devon-team@etechnv.com	WBS/WO: 21196155							
collected by: Gilbert Moreno	Incident ID: nAB161956595							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
11:00	1.30.24	S	1	BH17	1	0.5'								X		
11:10	1.30.24	S	1	BH17	2	4'								X		
11:20	1.30.24	S	1	BH17	3	10'								X		
11:30	1.30.24	S	1	BH17	4	15'								X		
11:40	1.30.24	S	1	BH17	5	20'								X		
11:50	1.30.24	S	1	BH17	6	24'								X		1-day Rush

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: GM

Relinquished by: (Signature) <i>Cubano</i>	Date 2/1/24	Time 10:24	Received by: (Signature) <i>Nichelle Gayle</i>	Date 2-1-24	Time 10:24	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 T2 T3 AVG Temp °C 4
Relinquished by: (Signature) <i>Nichelle Gayle</i>	Date 2-1-24	Time 1630	Received by: (Signature) <i>[Signature]</i>	Date 2-1-24	Time 16:30	
Relinquished by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 23:48	Received by: (Signature) <i>Jhiesse</i>	Date 020224	Time 0600	

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 1497 of 1686

Envirotech Analytical Laboratory

Printed: 2/2/2024 12:35:35PM

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

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:31
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402036
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E402035

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402035
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH18 0.5'	5
BH18 4'	6
BH18 10'	7
BH15 15'	8
BH18 20'	9
BH18 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH18 0.5'	E402035-01A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 4'	E402035-02A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 10'	E402035-03A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH15 15'	E402035-04A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 20'	E402035-05A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH18 24'	E402035-06A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:28:49PM
--	--	--

BH18 0.5'

E402035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>	91.0 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 4'

E402035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	95.2 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	63.5	20.0	1	02/03/24	02/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:28:49PM
--	--	---------------------------------

BH18 10'

E402035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	94.6 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH15 15'

E402035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	92.7 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 20'

E402035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406022	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	ND	200	10	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:28:49PM

BH18 24'

E402035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	98.9 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	281	200	10	02/03/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

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 (2406022-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:28:49PM

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 (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:28

- 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: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program					
Project: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E402035		Job Number 61058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method		5 Day TAT					RCRA
Address: 13000 W County Rd 100		Phone: 575-885-7502		Email: jim.raley@dmn.com									
City, State, Zip: Odessa, TX, 79765		WBS/WO: 21196155		Incident ID: nAB161956595									
Phone: 832-541-7719													
Email: Devon-team@etechnv.com													
Collected by: Gilbert Moreno													

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	TDS	Cation/Anion	BGDOC NM	GDGC TX	Remarks
10:10	1.29.24	S	1	BH18	1	0.5'								X		
10:20	1.29.24	S	1	BH18	2	4'								X		
10:30	1.29.24	S	1	BH18	3	10'								X		
10:40	1.29.24	S	1	BH18	4	15'								X		
10:50	1.29.24	S	1	BH18	5	20'								X		
11:00	1.29.24	S	1	BH18	6	24'								X		1-day Rush

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: GM

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
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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.



Page 1514 of 1686

Envirotech Analytical Laboratory

Printed: 2/2/2024 12:28:58PM

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@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:24
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402035
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E401208

Job Number: 01058-0007

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/5/24

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: 2/5/24



Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: Barbados State #001 SWD
Workorder: E401208
Date Received: 1/29/2024 11:06:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 11:06:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
BH19 4'	6
BH19 10'	7
BH19 15'	8
BH19 20'	9
BH19 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/05/24 13:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH19 0.5'	E401208-01A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 4'	E401208-02A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 10'	E401208-03A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 15'	E401208-04A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 20'	E401208-05A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.
BH19 24'	E401208-06A	Soil	01/25/24	01/29/24	Glass Jar, 2 oz.

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/5/2024 1:20:28PM
--	--	--

BH19 0.5'

E401208-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	39.8	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>	107 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	4320	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 4'

E401208-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	1970	40.0	2	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 10'

E401208-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405058
Chloride	1250	20.0	1	01/31/24	01/31/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 15'

E401208-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405058
Chloride	3290	40.0	2	01/31/24	02/01/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 20'

E401208-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Benzene	ND	0.0250	1	01/30/24	02/04/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/04/24	
Toluene	ND	0.0250	1	01/30/24	02/04/24	
o-Xylene	ND	0.0250	1	01/30/24	02/04/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/04/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2405042
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		01/30/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405056
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2405058
Chloride	1630	200	10	01/31/24	02/01/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/5/2024 1:20:28PM

BH19 24'**E401208-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Benzene	ND	0.0250	1	01/30/24	02/01/24	
Ethylbenzene	ND	0.0250	1	01/30/24	02/01/24	
Toluene	ND	0.0250	1	01/30/24	02/01/24	
o-Xylene	ND	0.0250	1	01/30/24	02/01/24	
p,m-Xylene	ND	0.0500	1	01/30/24	02/01/24	
Total Xylenes	ND	0.0250	1	01/30/24	02/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2405042	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/24	02/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		01/30/24	02/01/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2405056	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/31/24	01/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/31/24	01/31/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		01/31/24	01/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2405058	
Chloride	ND	200	10	01/31/24	02/01/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405042-BLK1)Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

LCS (2405042-BS1)Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.97	0.0250	5.00		99.3	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

Matrix Spike (2405042-MS1)Source: E401187-05Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.90	0.0250	5.00	ND	98.1	54-133			
Ethylbenzene	4.76	0.0250	5.00	ND	95.2	61-133			
Toluene	4.89	0.0250	5.00	ND	97.8	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2405042-MSD1)Source: E401187-05Prepared: 01/30/24 Analyzed: 02/04/24

Benzene	4.87	0.0250	5.00	ND	97.4	54-133	0.725	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133	0.477	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	0.639	20	
o-Xylene	4.81	0.0250	5.00	ND	96.3	63-131	0.487	20	
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131	0.496	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	0.493	20	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405042-BLK1) Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			

LCS (2405042-BS2) Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.4	70-130			

Matrix Spike (2405042-MS2) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

Matrix Spike Dup (2405042-MSD2) Source: E401187-05 Prepared: 01/30/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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 (2405056-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

LCS (2405056-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Diesel Range Organics (C10-C28)	236	25.0	250		94.5	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike (2405056-MS1)					Source: E401191-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.3	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike Dup (2405056-MSD1)					Source: E401191-01		Prepared: 01/31/24 Analyzed: 01/31/24		
Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.2	38-132	0.0928	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/5/2024 1:20:28PM

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 (2405058-BLK1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	ND	20.0							
LCS (2405058-BS1)					Prepared: 01/31/24 Analyzed: 01/31/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2405058-MS1)				Source: E401208-03		Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	1350	20.0	250	1250	38.1	80-120			M4
Matrix Spike Dup (2405058-MSD1)				Source: E401208-03		Prepared: 01/31/24 Analyzed: 01/31/24			
Chloride	1380	20.0	250	1250	51.3	80-120	2.41	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/05/24 13:20

- 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.

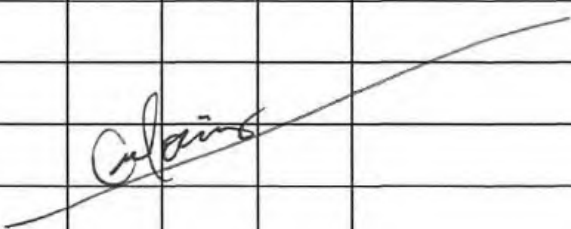
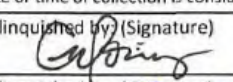
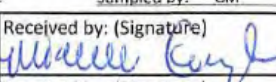
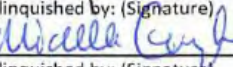
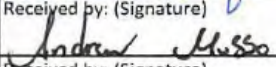
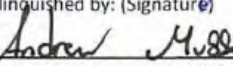
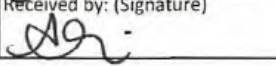
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC					Bill To		Lab Use Only				TAT				EPA Program							
Project: Barbados State #001 SWD					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA						
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E 401208		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State					
Phone: 832-541-7719					Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX	
Email: Devon-team@etechnv.com					WBS/WO: 21196155												x					
Collected by: Gilbert Moreno					Incident ID: nAB161956595												Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
9:00	1.25.24	S	1	BH19	1	0.5'								X								
9:10	1.25.24	S	1	BH19	2	4'								X								
9:20	1.25.24	S	1	BH19	3	10'								X								
9:30	1.25.24	S	1	BH19	4	15'								X								
9:40	1.25.24	S	1	BH19	5	20'								X								
9:50	1.25.24	S	1	BH19	6	24'								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 1/26/24		Time 0946		Received by: (Signature) 					Date 1-26-24		Time 0946		Lab Use Only				
Relinquished by: (Signature) 					Date 1-26-24		Time 1715		Received by: (Signature) 					Date 1-26-24		Time 1715		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N				
Relinquished by: (Signature) 					Date 1-26-24		Time 2300		Received by: (Signature) 					Date 1-29-24		Time 11:06		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												
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: 1/29/2024 3:50:02PM

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:	01/29/24 11:06	Work Order ID:	E401208
Phone:	(539) 573-4018	Date Logged In:	01/29/24 11:06	Logged In By:	Angelina Pineda
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: Barbados State #001 SWD

Work Order: E402034

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402034
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH20 0.5'	5
BH20 4'	6
BH20 10'	7
BH20 15'	8
BH20 20'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 16:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH20 0.5'	E402034-01A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 4'	E402034-02A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 10'	E402034-03A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 15'	E402034-04A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.
BH20 20'	E402034-05A	Soil	01/29/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 0.5'

E402034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene	123 %	70-130		02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		02/02/24	02/06/24	
Surrogate: Toluene-d8	112 %	70-130		02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene	123 %	70-130		02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		02/02/24	02/06/24	
Surrogate: Toluene-d8	112 %	70-130		02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	91.5 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 4'

E402034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/08/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/08/24	
Toluene	ND	0.0250	1	02/02/24	02/08/24	
o-Xylene	ND	0.0250	1	02/02/24	02/08/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/08/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		115 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		106 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		115 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		106 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		94.0 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	99.9	20.0	1	02/03/24	02/04/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 4:24:34PM
--	--	---------------------------------

BH20 10'

E402034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/08/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/08/24	
Toluene	ND	0.0250	1	02/02/24	02/08/24	
o-Xylene	ND	0.0250	1	02/02/24	02/08/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/08/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		108 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130	02/02/24	02/08/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	02/02/24	02/08/24	
Surrogate: Toluene-d8		108 %	70-130	02/02/24	02/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		93.4 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1530	200	10	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 15'

E402034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.4 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1060	200	10	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 4:24:34PM

BH20 20'

E402034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		85.6 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	962	200	10	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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 (2405156-BLK1)					Prepared: 02/02/24 Analyzed: 02/06/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2)					Prepared: 02/02/24 Analyzed: 02/06/24				
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2)					Source: E402033-04	Prepared: 02/02/24 Analyzed: 02/06/24			
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2)					Source: E402033-04	Prepared: 02/02/24 Analyzed: 02/06/24			
Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406022-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 4:24:34PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 16:24

- 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: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E 402034		Job Number 01058-0007		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E 402034		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@divn.com											
Email: Devon-team@etechenv.com		WBS/WO: 21196155											
Collected by: Gilbert Moreno		Incident ID: nAB161956595											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
9:30	1.29.24	S	1	BH20	1	0.5'								X		
9:40	1.29.24	S	1	BH20	2	4'								X		
9:50	1.29.24	S	1	BH20	3	10'								X		
10:00	1.29.24	S	1	BH20	4	15'								X		
10:05	1.29.24	S	1	BH20	5	20'								X		1-day Rush

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: GM

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: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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

Envirotech Analytical Laboratory

Printed: 2/2/2024 12:19:55PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: WPX Energy - Carlsbad
 Phone: (539) 573-4018
 Email: devon-team@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 12:16
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402034
 Logged In By: Jessica Liesse

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? 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 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: Barbados State #001 SWD

Work Order: E402033

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402033
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH21 0.5'	5
BH21 4'	6
BH21 10'	7
BH21 15'	8
BH21 20'	9
QC Summary Data	10
QC - Volatile Organic Compounds by EPA 8260B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH21 0.5'	E402033-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 4'	E402033-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 10'	E402033-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 15'	E402033-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH21 20'	E402033-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 1:57:30PM
--	--	--

BH21 0.5'

E402033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		121 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
<i>Surrogate: Bromofluorobenzene</i>		121 %	70-130	02/02/24	02/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	02/02/24	02/06/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>		90.5 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 4'

E402033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.2 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	72.1	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 10'

E402033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		89.7 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	2250	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 15'

E402033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		107 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		107 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		91.9 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	1790	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:57:30PM

BH21 20'

E402033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/06/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/06/24	
Toluene	ND	0.0250	1	02/02/24	02/06/24	
o-Xylene	ND	0.0250	1	02/02/24	02/06/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/06/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/06/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/06/24	
Surrogate: 1,2-Dichloroethane-d4		92.7 %	70-130	02/02/24	02/06/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
Surrogate: n-Nonane		92.4 %	50-200	02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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 (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 1:57:30PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2)

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405166-BLK1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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 (2406022-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

LCS (2406022-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	43.9		50.0		87.8	50-200			

LCS Dup (2406022-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132	1.52	20	
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:57:30PM

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 (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:57

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E 402032		61058-0007					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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dv.com														NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
8:00	1.30.24	S	1	BH21	1	0.5'									X							
8:10	1.30.24	S	1	BH21	2	4'									X							
8:20	1.30.24	S	1	BH21	3	10'									X							
8:30	1.30.24	S	1	BH21	4	15'									X							
8:40	1.30.24	S	1	BH21	5	20'									X			1-day Rush				
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						
G. Moreno				2/1/24		10:24		Michelle Camp				2-1-24		1024		Received on ice: Y/ N						
Michelle Camp				2-1-24		1630		J. Raley				2/1/24		16-30		T1 T2 T3						
J. Raley				2/1/24		23:48		J. Raley				620224		0610		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: 2/2/2024 12:12:39PM

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:	02/02/24 06:10	Work Order ID:	E402033
Phone:	(539) 573-4018	Date Logged In:	02/02/24 12:05	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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?	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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402077

Job Number: 01058-0007

Received: 2/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/14/24

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: 2/14/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402077
Date Received: 2/8/2024 6:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/8/2024 6:00:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH20 24'	5
BH20 29'	6
BH21 24'	7
BH21 29'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH20 24'	E402077-01A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH20 29'	E402077-02A	Soil	02/05/24	02/08/24	Glass Jar, 2 oz.
BH21 24'	E402077-03A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.
BH21 29'	E402077-04A	Soil	02/06/24	02/08/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/14/2024 1:47:04PM
--	--	---

BH20 24'

E402077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
Surrogate: 4-Bromochlorobenzene-PID	87.1 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
Surrogate: n-Nonane	116 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	328	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH20 29'

E402077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0260	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0260	1	02/08/24	02/13/24	
Toluene	ND	0.0260	1	02/08/24	02/13/24	
o-Xylene	ND	0.0260	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0520	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0260	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.8	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	252	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH21 24'

E402077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2406083
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406099
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406107
Chloride	ND	200	10	02/09/24	02/09/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/14/2024 1:47:04PM

BH21 29'

E402077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Benzene	ND	0.0250	1	02/08/24	02/13/24	
Ethylbenzene	ND	0.0250	1	02/08/24	02/13/24	
Toluene	ND	0.0250	1	02/08/24	02/13/24	
o-Xylene	ND	0.0250	1	02/08/24	02/13/24	
p,m-Xylene	ND	0.0500	1	02/08/24	02/13/24	
Total Xylenes	ND	0.0250	1	02/08/24	02/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2406083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/08/24	02/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		02/08/24	02/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406099	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/09/24	02/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/09/24	02/10/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/09/24	02/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2406107	
Chloride	ND	200	10	02/09/24	02/09/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

LCS (2406083-BS1) Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2406083-MS1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2406083-MSD1) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133	6.53	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	61-133	6.54	20	
Toluene	4.83	0.0250	5.00	ND	96.5	61-130	6.64	20	
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131	6.66	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	6.47	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.9	63-131	6.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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 (2406083-BLK1) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

LCS (2406083-BS2) Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2406083-MS2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2406083-MSD2) Source: E402082-01 Prepared: 02/08/24 Analyzed: 02/14/24

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130	4.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406099-BLK1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.4		50.0		115	50-200			

LCS (2406099-BS1)					Prepared: 02/09/24 Analyzed: 02/10/24				
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2406099-MS1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike Dup (2406099-MSD1)					Source: E402065-02		Prepared: 02/09/24 Analyzed: 02/10/24		
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132	2.46	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/14/2024 1:47:04PM

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 (2406107-BLK1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	ND	20.0							
LCS (2406107-BS1)					Prepared: 02/09/24 Analyzed: 02/09/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2406107-MS1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	278	20.0	250	24.3	101	80-120			
Matrix Spike Dup (2406107-MSD1)					Source: E402075-24		Prepared: 02/09/24 Analyzed: 02/09/24		
Chloride	275	20.0	250	24.3	100	80-120	1.16	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/14/24 13:47

- 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: Barbados State #001 SWD				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA																																		
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E402077		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State																																	
Phone: 832-541-7719				Email: jim.raley@dmv.com														NM	CO	UT	AZ	TX																													
Email: Devon-team@etechnv.com				WBS/WO: 21196155														x																																	
Collected by: Gilbert Moreno				Incident ID: nAB161956595														Remarks																																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																																														
15:00	2.5.24	S	1	BH20	1	24'									X																																				
15:20	2.5.24	S	1	BH20	2	29'									X																																				
8:00	2.6.24	S	1	BH21	3	24'									X																																				
8:20	2.6.24	S	1	BH21	4	29'									X																																				
<div>Additional Instructions:</div> <p>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: GM</p> <table><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td><td rowspan="3">Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u></td></tr><tr><td><i>Gilbert Moreno</i></td><td>2.7.24</td><td>10:45</td><td><i>Michelle Bayle</i></td><td>2-7-24</td><td>10:45</td></tr><tr><td><i>Michelle Bayle</i></td><td>2-7-24</td><td>11:00</td><td><i>Andrew Higgs</i></td><td>2-7-24</td><td>18:00</td></tr><tr><td>Relinquished by: (Signature)</td><td>Date</td><td>Time</td><td>Received by: (Signature)</td><td>Date</td><td>Time</td><td></td></tr><tr><td><i>Andrew Higgs</i></td><td>2.7.24</td><td>24:00</td><td><i>Kimberly R. Hall</i></td><td>2-8-24</td><td>06:00</td><td></td></tr></table> <p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p> <p>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.</p>																			Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	<i>Gilbert Moreno</i>	2.7.24	10:45	<i>Michelle Bayle</i>	2-7-24	10:45	<i>Michelle Bayle</i>	2-7-24	11:00	<i>Andrew Higgs</i>	2-7-24	18:00	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		<i>Andrew Higgs</i>	2.7.24	24:00	<i>Kimberly R. Hall</i>	2-8-24	06:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																																													
<i>Gilbert Moreno</i>	2.7.24	10:45	<i>Michelle Bayle</i>	2-7-24	10:45																																														
<i>Michelle Bayle</i>	2-7-24	11:00	<i>Andrew Higgs</i>	2-7-24	18:00																																														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																																														
<i>Andrew Higgs</i>	2.7.24	24:00	<i>Kimberly R. Hall</i>	2-8-24	06:00																																														

Envirotech Analytical Laboratory

Printed: 2/8/2024 8:22:22AM

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:	02/08/24 06:00	Work Order ID:	E402077
Phone:	(539) 573-4018	Date Logged In:	02/07/24 15:36	Logged In By:	Alexa Michaels
Email:	devon-team@ensolum.com	Due Date:	02/14/24 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: Barbados State #001 SWD

Work Order: E402032

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402032
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH22 0.5'	5
BH22 4'	6
BH22 10'	7
BH22 15'	8
BH22 20'	9
BH22 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported: 02/07/24 13:56
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
BH22 0.5'	E402032-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 4'	E402032-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 10'	E402032-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 15'	E402032-04A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 20'	E402032-05A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH22 24'	E402032-06A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 0.5'

E402032-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene	119 %	70-130		02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		02/02/24	02/05/24	
Surrogate: Toluene-d8	111 %	70-130		02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene	119 %	70-130		02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		02/02/24	02/05/24	
Surrogate: Toluene-d8	111 %	70-130		02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane	113 %	50-200		02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	5040	40.0	2	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 4'

E402032-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		112 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	312	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 10'

E402032-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		107 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	134	20.0	1	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 15'

E402032-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		113 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	106	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 20'

E402032-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.8 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		113 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 1:56:06PM

BH22 24'

E402032-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405156
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2405166
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/04/24	02/05/24	
Surrogate: n-Nonane		95.3 %	50-200	02/04/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405168
Chloride	ND	100	5	02/03/24	02/04/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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 (2405156-BLK1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS1)

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.61	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		101	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.583		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2405156-MS1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.66	0.0250	2.50	ND	107	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.575		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike Dup (2405156-MSD1)

Source: E402033-04

Prepared: 02/02/24 Analyzed: 02/06/24

Benzene	2.72	0.0250	2.50	ND	109	48-131	6.17	23	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	4.77	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	5.56	24	
o-Xylene	2.85	0.0250	2.50	ND	114	43-135	6.65	27	
p,m-Xylene	5.64	0.0500	5.00	ND	113	43-135	6.01	27	
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135	6.23	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405156-BLK1) Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.566		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

LCS (2405156-BS2) Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike (2405156-MS2) Source: E402033-04 Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.567		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2405156-MSD2) Source: E402033-04 Prepared: 02/02/24 Analyzed: 02/06/24

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405166-BLK1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

LCS (2405166-BS1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS Dup (2405166-BSD1) Prepared: 02/04/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	217	25.0	250		86.9	38-132	2.48	20	
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 1:56:06PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405168-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	ND	20.0							
LCS (2405168-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	246	20.0	250		98.4	90-110			
LCS Dup (2405168-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Chloride	245	20.0	250		98.1	90-110	0.230	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 13:56

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program					
Project: Barbados State #001 SWD		Attention: Jim Raley		Lab WO# E 40232		Job Number 61058-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno		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: 832-541-7719		Email: jim.raley@dv.com											
Email: Devon-team@etechenv.com		WBS/WO: 21196155											
Collected by: Gilbert Moreno		Incident ID: nAB161956595											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	TX	GDGC	Remarks
14:10	1.30.24	S	1	BH22	1	0.5'								X			
14:20	1.30.24	S	1	BH22	2	4'								X			
14:30	1.30.24	S	1	BH22	3	10'								X			
14:40	1.30.24	S	1	BH22	4	15'								X			
14:50	1.30.24	S	1	BH22	5	20'								X			
15:00	1.30.24	S	1	BH22	6	24'								X			1-day Rush

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: GM

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>Gilbert Moreno</i>	Date 2/1/24	Time 10:24	Received by: (Signature) <i>Michelle Gay</i>	Date 2-1-24	Time 10:24	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gay</i>	Date 2-1-24	Time 16:30	Received by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 16:30	
Relinquished by: (Signature) <i>[Signature]</i>	Date 2/1/24	Time 23:48	Received by: (Signature) <i>[Signature]</i>	Date 02/02/24	Time 06:10	

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: 2/2/2024 11:59:59AM

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	Date Received:	02/02/24 06:10	Work Order ID:	E402032
Phone:	(539) 573-4018	Date Logged In:	02/02/24 11:49	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402031

Job Number: 01058-0007

Received: 2/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402031
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH023 0.5'	5
BH023 4'	6
BH023 10'	7
QC Summary Data	8
QC - Volatile Organic Compounds by EPA 8260B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH023 0.5'	E402031-01A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH023 4'	E402031-02A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.
BH023 10'	E402031-03A	Soil	01/30/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 0.5'

E402031-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	120 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	120 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	112 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2406002
Chloride	4340	40.0	2	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 4'

E402031-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		114 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	2550	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 2:11:58PM

BH023 10'

E402031-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		110 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	338	20.0	1	02/04/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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 (2405151-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)

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

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)

Source: E402027-05

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

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)

Source: E402027-05

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 2:11:58PM
--	--	---------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2)

Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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 (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2406023-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
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 (2406023-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 2:11:58PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 14:11

- 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.



Page 14 of 15

Envirotech Analytical Laboratory

Printed: 2/3/2024 10:25:05AM

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:	02/02/24 06:10	Work Order ID:	E402031
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:46	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402030

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402030
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH024 0.5'	5
BH024 4'	6
BH024 10'	7
QC Summary Data	8
QC - Volatile Organic Compounds by EPA 8260B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:55

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH024 0.5'	E402030-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH024 4'	E402030-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH024 10'	E402030-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:55:18PM
--	--	---

BH024 0.5'

E402030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	02/02/24	02/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	02/02/24	02/04/24	
<i>Surrogate: Toluene-d8</i>		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	02/02/24	02/04/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	02/02/24	02/04/24	
<i>Surrogate: Toluene-d8</i>		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	6150	100	5	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:55:18PM

BH024 4'

E402030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/05/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/05/24	
Toluene	ND	0.0250	1	02/02/24	02/05/24	
o-Xylene	ND	0.0250	1	02/02/24	02/05/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/05/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/05/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	02/02/24	02/05/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		112 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	756	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:55:18PM

BH024 10'

E402030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		108 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	283	20.0	1	02/04/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:55:18PM
--	--	----------------------------------

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)

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

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)

Source: E402027-05

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

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)

Source: E402027-05

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)

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

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2)

Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2)

Source: E402027-05

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

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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 (2406023-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
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 (2406023-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:55:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:55

- 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: 2/2/2024 10:43:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	02/02/24 06:10	Work Order ID:	E402030
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:33	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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? 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:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Barbados State #001 SWD

Work Order: E402029

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/8/24

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: 2/8/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402029
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH25 0.5'	5
BH25 4'	6
BH25 10'	7
BH25 15'	8
BH25 20'	9
BH25 24'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH25 0.5'	E402029-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 4'	E402029-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 10'	E402029-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 15'	E402029-04A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 20'	E402029-05A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH25 24'	E402029-06A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/8/2024 1:27:38PM
--	--	--

BH25 0.5'

E402029-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.1 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>	113 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	46.5	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 4'

E402029-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	166	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 10'

E402029-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	449	40.0	2	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 15'

E402029-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	116	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 20'

E402029-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2405157	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2406023	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2405171	
Chloride	136	20.0	1	02/03/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/8/2024 1:27:38PM

BH25 24'

E402029-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: EG		Batch: 2405157
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2405171
Chloride	49.5	20.0	1	02/03/24	02/05/24	



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			

LCS (2405157-BS1) Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.09	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike (2405157-MS1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.22	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2405157-MSD1) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Benzene	5.03	0.0250	5.00	ND	101	54-133	4.15	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.66	20	
Toluene	5.01	0.0250	5.00	ND	100	61-130	3.98	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	3.73	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.95	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	3.88	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405157-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2405157-BS2) Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2405157-MS2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2405157-MSD2) Source: E402035-05 Prepared: 02/02/24 Analyzed: 02/04/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	1.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1)					Prepared: 02/05/24 Analyzed: 02/05/24				
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 (2406023-BS1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1)					Prepared: 02/05/24 Analyzed: 02/05/24				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/8/2024 1:27:38PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405171-BLK1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2405171-BS1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	244	20.0	250		97.7	90-110			
LCS Dup (2405171-BSD1)					Prepared: 02/03/24 Analyzed: 02/05/24				
Chloride	243	20.0	250		97.3	90-110	0.436	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/08/24 13:27

- 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: 2/26/2025 1:44:05 PM

Received by OCD: 2/26/2025 7:26:03 AM

Client: WPX Energy Permian, LLC		Bill To		Lab Use Only		TAT		EPA Program	
Project: Barbados State #001 SWD		Attention: Jim Raley		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Gilbert Moreno		Address: 5315 Buena Vista Dr.		E402029					
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		Job Number		5 Day TAT			
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502		Analysis and Method				RCRA	
Phone: 832-541-7719		Email: jim.raley@dv.com						State	
mail: Devon-team@etechnv.com		WBS/WO: 21196155						NM CO UT AZ TX	
Collected by: Gilbert Moreno		Incident ID: nAB161956595						x	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TDS	Cation/Anion	BGDOC NM	GDOC TX	Remarks
8:50	1.31.24	S	1	BH25	1	0.5'								X		
9:00	1.31.24	S	1	BH25	2	4'								X		
9:10	1.31.24	S	1	BH25	3	10'								X		
9:20	1.31.24	S	1	BH25	4	15'								X		
9:30	1.31.24	S	1	BH25	5	20'								X		
9:40	1.31.24	S	1	BH25	6	24'								X		1-day Rush

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: GM

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
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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.



Page 1645 of 1686

Envirotech Analytical Laboratory

Printed: 2/2/2024 10:30:48AM

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:	02/02/24 06:10	Work Order ID:	E402029
Phone:	(539) 573-4018	Date Logged In:	02/02/24 10:24	Logged In By:	Jessica Liesse
Email:	devon-team@ensolum.com	Due Date:	02/02/24 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: 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? 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 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: Barbados State #001 SWD

Work Order: E402028

Job Number: 01058-0007

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

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: 2/7/24

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: Barbados State #001 SWD
Workorder: E402028
Date Received: 2/2/2024 6:10:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Barbados State #001 SWD.

The analytical test results summarized in this report with the Project Name: Barbados State #001 SWD 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

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH26 0.5'	5
BH26 4'	6
BH26 10'	7
BH26 15'	8
BH26 20'	9
BH26 24'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH26 0.5'	E402028-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 4'	E402028-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 10'	E402028-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 15'	E402028-04A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 20'	E402028-05A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
BH26 24'	E402028-06A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:57:01PM
--	--	---

BH26 0.5'

E402028-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	121 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	110 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene	121 %	70-130		02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		02/02/24	02/04/24	
Surrogate: Toluene-d8	110 %	70-130		02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane	110 %	50-200		02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 4'

E402028-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		114 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		114 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		109 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	45.6	20.0	1	02/04/24	02/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: Barbados State #001 SWD Project Number: 01058-0007 Project Manager: Gilbert Moreno	Reported: 2/7/2024 12:57:01PM
--	--	----------------------------------

BH26 10'

E402028-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		124 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		110 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	131	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 15'

E402028-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		104 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	61.1	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 20'

E402028-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		112 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406023
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/05/24	
Surrogate: n-Nonane		108 %	50-200	02/05/24	02/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	73.7	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Barbados State #001 SWD
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
2/7/2024 12:57:01PM

BH26 24'

E402028-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2405165
Diesel Range Organics (C10-C28)	ND	25.0	1	02/03/24	02/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/03/24	02/04/24	
Surrogate: n-Nonane		111 %	50-200	02/03/24	02/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	45.9	20.0	1	02/04/24	02/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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 (2405151-BLK1)

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

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)

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

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)

Source: E402027-05

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

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)

Source: E402027-05

Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2405151-BLK1)					Prepared: 02/02/24 Analyzed: 02/03/24				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2)					Prepared: 02/02/24 Analyzed: 02/05/24				
Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2)					Source: E402027-05	Prepared: 02/02/24 Analyzed: 02/03/24			
Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2)					Source: E402027-05	Prepared: 02/02/24 Analyzed: 02/03/24			
Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2405165-BLK1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

LCS (2405165-BS1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS Dup (2405165-BSD1)					Prepared: 02/03/24 Analyzed: 02/04/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	2.12	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406023-BLK1) Prepared: 02/05/24 Analyzed: 02/05/24

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 (2406023-BS1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2406023-BSD1) Prepared: 02/05/24 Analyzed: 02/05/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.3	38-132	1.20	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	Barbados State #001 SWD	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	2/7/2024 12:57:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	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:	Barbados State #001 SWD	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	02/07/24 12:57

- 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: Barbados State #001 SWD				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.		E402028		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	TDS	Cation/Anion	BGDOC NM	GDOC TX	State				
Phone: 832-541-7719				Email: jim.raley@dvn.com												NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com				WBS/WO: 21196155												x				
Collected by: Gilbert Moreno				Incident ID: nAB161956595												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
10:00	1.31.24	S	1	BH26	1	0.5'							X							
10:10	1.31.24	S	1	BH26	2	4'							X							
10:20	1.31.24	S	1	BH26	3	10'							X							
10:30	1.31.24	S	1	BH26	4	15'							X							
10:40	1.31.24	S	1	BH26	5	20'							X							
10:50	1.31.24	S	1	BH26	6	24'							X			1-day Rush				
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: GM												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								
Cafornio		2/1/24		10:24		Michelle Ryle		2-1-24		10:24		Received on ice: Y / N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3								
Michelle Ryle		2-1-24		16:30				2/1/24		16:30										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C								
J. Raley		2/1/24		23:48		J. Raley		020224		0610		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: 2/2/2024 10:20:57AM

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@ensolum.com

Date Received: 02/02/24 06:10
 Date Logged In: 02/02/24 09:48
 Due Date: 02/02/24 17:00 (0 day TAT)

Work Order ID: E402028
 Logged In By: Jessica Liesse

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? 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 InstructionComments/Resolution

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

Date



envirotech Inc.

APPENDIX H

Correspondence & Notifications

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 305995

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 305995
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/24/2024
Time sampling will commence	09:00 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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 305995

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 305995
	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.	1/22/2024

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 306721

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 306721
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source

Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	45
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/25/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 306721

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 306721
	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.	1/23/2024

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 307930

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307930
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/29/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307930

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307930
	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.	1/25/2024

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 307935

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307935
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/30/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307935

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307935
	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.	1/25/2024

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 307939

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307939
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 307939

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 307939
	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.	1/25/2024

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 310531

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310531
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source

Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/05/2024
Time sampling will commence	09:00 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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 310531

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310531
	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.	2/1/2024

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 310534

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310534
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source	
Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	35,067
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2024
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 the intersection of Hidalgo Road and Rubble Lane, continue SW on Hidalgo Road for approximately 1.5 miles, turn right on lease road, continue 0.1 miles to the Site.

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 310534

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 310534
	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.	2/1/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 435346

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619656595
Incident Name	NAB1619656595 BARBADOS STATE #001 @ 30-015-27558
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-27558] BARBADOS STATE #001

Location of Release Source

Please answer all the questions in this group.

Site Name	BARBADOS STATE #001
Date Release Discovered	06/28/2016
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Valve Produced Water Released: 65 BBL Recovered: 60 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office
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 2

Action 435346

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: 02/25/2025
--	--

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 435346

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	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 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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 1000 (ft.) and ½ (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	Between ½ and 1 (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 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Critical
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	6150
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2870
GRO+DRO (EPA SW-846 Method 8015M)	1810
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	12/31/2025
On what date will (or did) the final sampling or liner inspection occur	12/31/2025
On what date will (or was) the remediation complete(d)	12/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	118472
What is the estimated volume (in cubic yards) that will be reclaimed	17552
What is the estimated surface area (in square feet) that will be remediated	118472
What is the estimated volume (in cubic yards) that will be remediated	17552
<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 435346

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	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@dmv.com Date: 02/25/2025
<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>	

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 5

Action 435346

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	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

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 6

Action 435346

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	380627
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	35067

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
--	----

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 435346

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 435346
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. This release is in a critical karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the OCD Spill Rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Sidewall 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 off-pad areas must meet OCD reclamation/revegetation standards. The variance to excavate the AOC up to 5 feet bgs and install liner is denied. The 400 ft2 confirmation sample size is denied, due to the sensitive nature of the site location. Due to the depth of potential excavation, please make sure extreme safety precautions are taken to ensure personnel safety. The work will need to occur in 90 days after the work plan has been approved.	2/28/2025