



October 7, 2024

New Mexico Energy Minerals and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Deferral Request
East Pecos Federal 22 #003H
Incident Number nAPP2310336531
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC. (WPX), has prepared this *Deferral Request* to document assessment and soil sampling activities at the East Pecos Federal 22 #003H (Site) in Unit M, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The Site (32.0208407°, -103.9791165°) is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil and produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, WPX is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number **nAPP2310336531** until the Site is reconstructed and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.0210342°, -103.9788208°) and is associated with oil and gas exploration and production operations on Private Land.

On April 4, 2023, a water dump hung open, causing the tanks to reach high levels. The high-level switch activated, but the unit did not stop pumping. This resulted in the release of approximately 5 barrels (bbls) of crude oil and 25 bbls produced water to the lined secondary containment. A small hole in the containment allowed approximately 6 bbls of fluids to leak through and impacted the pad surface; 3 bbls of crude oil and 23 bbls of produced water were recovered. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be insufficient. WPX reported the release to the NMOCD via email on April 4, 2023, and submitted a Release Notification Form C-141 on April 13, 2023 (see Appendix A). The release was assigned Incident Number nAPP2310336531.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The New Mexico Office of the State Engineer (NMOSE) indicates the nearest depth to groundwater measurement is greater than 55 feet bgs and the water well, NMOSE file number C-4630, is located approximately 0.24 miles southeast of the Site as shown in Figure 1; The well log and record is provided in Appendix B. According to the United States Geological Survey (USGS), well 320118104574401 is located 550 feet north of the release extent; however, a depth to water measurement is not provided (Appendix B).

The closest continuously flowing or significant watercourse to the Site is a dry riverine, located approximately 1,560 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within a 100-year floodplain or overlying a subsurface mine and it is not underlain by unstable geology (medium potential karst designation area); however, the Site is less than 1,000 feet from a freshwater well or spring.

A freshwater well was identified during the desktop review and Ensolum personnel verified the presence of surface equipment at the location. The well is located 545 feet from the edge of the release extent on the north side of the caliche pad. The surface equipment indicates freshwater has been sold, purchased, or transferred from this location; however, there is no available groundwater data for this well. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

From April 11, 2023, through May 8, 2023, Ensolum personnel visited the Site to evaluate the release extent and to conduct delineation sampling activities. Three delineation soil samples (SS01D through SS03G) were advanced via backhoe to confirm the vertical extent of the on-pad release. Four additional samples (SS04 through SS07C) were collected to determine the lateral extent of the on-pad release. Discrete soil samples were collected from each location at depths ranging from the ground surface to 9 feet bgs. One borehole (BH01) was advanced via hand auger near the location of the holes identified during the liner integrity inspection. Discrete soil samples were collected from the borehole at depths ranging from ground surface to 3.5 feet bgs to assess the vertical extent of impacted soil beneath the containment liner. Soil samples SS12 and SS13 were collected on the west and south sides of the containment, respectively, to verify the lateral extent. Soil samples SS08 through SS11 were not collected or submitted for laboratory analysis.

On January 18, 2024, Ensolum personnel returned to the site to collect additional delineation soil samples beneath the lined containment. Two boreholes (BH02 and BH03) were advanced via a hand

auger near the central area of the containment. Discrete soil samples were collected from the borehole at depths ranging from ground surface to 2.5 feet bgs to further assess the vertical extent of impacted soil beneath the containment liner.

On July 16, 2024, Ensolum personnel returned to the site to collect additional delineation soil samples in the release area east of the lined containment. Three potholes (PH01, PH02, and SS07) were advanced via a tracked excavator within the release area. Discrete soil samples were collected from the potholes at depths ranging from ground surface to 9 feet bgs to further assess the vertical extent of the impacted soil beneath the release extent.

On August 19, 2024, during excavation activities, Ensolum personnel collected additional lateral delineation soil samples. Two samples (SS04B and SS04C) were collected to determine the lateral extent at the northwest corner of the release.

Soil from the lateral and vertical soil sampling locations and from boreholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were documented on lithologic/soil sampling logs, which are included as Appendix C. The boreholes were backfilled with soil removed and Ensolum personnel repaired the hole in the liner. Delineation soil sample locations are depicted on Figure 2 and photographic documentation is included in Appendix D.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, 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 the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION SOIL SAMPLING ACTIVITIES

Beginning on August 13, 2024, Ensolum personnel oversaw the excavation of impacted soil from the spill area on the east side of the lined secondary containment and to conduct confirmation sampling activities. Excavation activities were performed via tracked excavator and loader to depths ranging from ground surface to 9 feet bgs. A hydro-vacuum truck removed the top 3 feet of soil above pipelines at the northwest corner of the release area. To direct excavation activities, soil was field screened for VOCs and chloride as previously described.

WPX and Ensolum requested a sampling frequency variance of 400 square feet for confirmation floor samples and every 200 square feet for sidewall samples from the NMOCD. On December 21, 2023, NMOCD accepted the sampling variance request. WPX believes this variance has provided equal or better protection of public health, the environment, and groundwater. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS28) were collected from the floor of the excavation at depth of 9 feet bgs. Twenty-seven confirmation sidewall soil samples (SW01 through SW27) were collected at depths ranging between ground surface and 9 feet bgs. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation is included in Appendix D. A total of approximately 8,640 cubic yards of soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Red Bluff Disposal Facility.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples collected from sample locations SS01D through SS03G indicated concentrations of TPH and chloride exceeded the Closure Criteria for the Site at depths ranging from 1-foot to 8 feet bgs. The terminal depth sample, collected from sample location SS02H at 9 feet bgs, was compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil.

Laboratory analytical results for delineation soil samples SS04 through SS07 indicated all COC concentrations were in compliance with the Closure Criteria for the Site at depths ranging from the ground surface to 0.5 feet bgs, with the exception of SS07, which was recollected. All COC concentrations in soil sample SS07C were in compliance with the Closure Criteria for the Site at surface. Delineation soil samples SS12 and SS13 were both in compliance with the Closure Criteria for the Site and successfully defined the lateral extent of impacted soil beneath the containment liner.

Laboratory analytical results for delineation soil samples collected from boreholes BH01 through BH03, indicated COC concentrations exceeded the Closure Criteria for the Site at the ground surface, 2 feet, and 3 feet bgs, but vertical delineation was achieved at 3.5 feet bgs.

Laboratory analytical results for excavation floor soil samples (FS01 through FS28) as well as sidewall soil samples (SW01 through SW15 and SW24 through SW27) indicated all COC concentrations were in compliance with the strictest Closure Criteria at depths ranging from ground surface to 9 feet bgs. Sidewall samples SW14 through SW23 exceeded the Site Closure Criteria for chloride. These sample locations are in the direct vicinity of production equipment piping and the lined containment, limiting further excavation. The laboratory analytical results are summarized on Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix E. Email correspondence with NMOCD is provided in Appendix F.

DEFERRAL REQUEST

WPX is requesting deferral of final remediation due to the presence of active production equipment and pipelines within and between the lined containments. Impacted soil is limited to the area immediately beneath the lined containment, active production equipment, and active pipelines, which remediation would require a major facility deconstruction.

Impacted soil remaining in place beneath the liner, is delineated vertically by boreholes BH01, BH02 and BH03, collected at depths ranging from ground surface to 3.5 feet bgs. Impacted soil slightly outside the containment wall is delineated vertically by confirmation soil samples collected near the lined containment area at 9 feet bgs. The release area on-pad is laterally defined, by assessment soil samples (SS01 through SS13), collected at ground surface and vertically by all the confirmation soil samples at 9 feet bgs. Confirmation sidewall soil sample SW16 is located directly beneath processes piping running from the separator containment to the tank containment. Due to ongoing litigation between WPX and the private landowner, further advancement of SW16 past the edge of the caliche pad is prohibited. Confirmation sidewall SW16 is laterally defined by lateral delineation soil sample SS04C collected from the very edge of the caliche pad at ground surface. The concentration of chloride in confirmation soil sample SW16 was 718 mg/kg, indicating limited chloride impacts are likely present under the processing equipment to the west, which appears to still be protective of human health, the environment, and groundwater without compromising the safety and stability of equipment.

A maximum of 1,043 cubic yards of chloride-impacted soil remains in place beneath the lined containment and production piping assuming a maximum depth of 3.5 feet near borehole BH01, 1-foot bgs near borehole BH02 and 9 feet bgs beneath the sidewall areas along the containment wall (see

figure 4). Impacted soil volumes estimate include waste-containing soil volumes to be addressed through reconstruction of the containment or final pad reclamation.

WPX does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 55 feet bgs, the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner and active pipelines. The liner has been repaired by WPX and will restrict future vertical migration of residual impacts and any interactions with humans and/or wildlife.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, WPX requests deferral of final remediation for Incident Number **nAPP2310336531** until final reclamation of the well pad or major construction, whichever comes first. Remedial actions completed to date have been protective of human health, the environment, and groundwater and deferment of impacted soil beneath the lined containment appears to be equally protective and warranting deferment. Notifications submitted to the NMOCD are included in Appendix F.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,
Ensolum, LLC



Ashely Giovengo
Senior Scientist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Jim Raley, WPX

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Floor Soil Samples)
Table 3	Soil Sample Analytical Results (Sidewall Soil Samples)
Appendix A	C-141 Form
Appendix B	Well Log and Record
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F NMOCD Correspondence



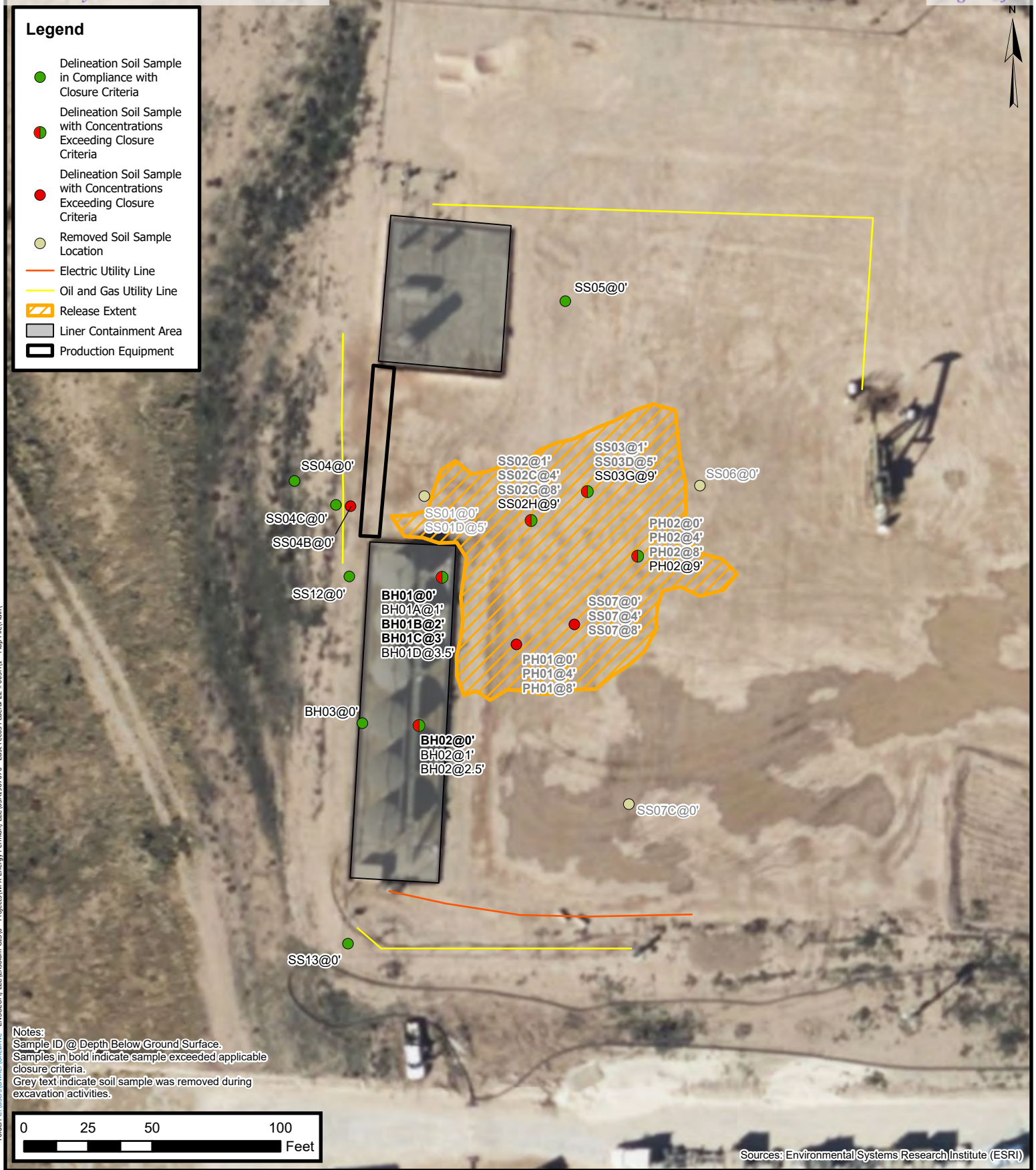
Figures

Site Receptor Map

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number: nAPP2310336531
Unit M, Sec. 22, T 26S, R29E
Eddy County, New Mexico

FIGURE

1

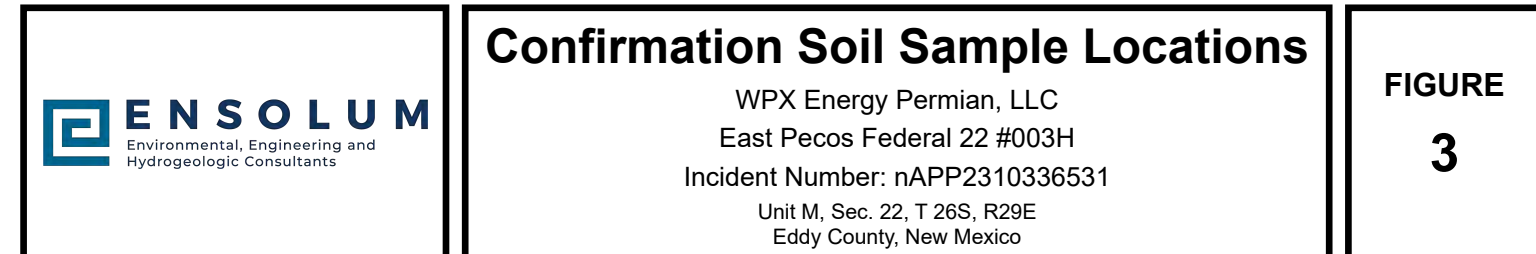


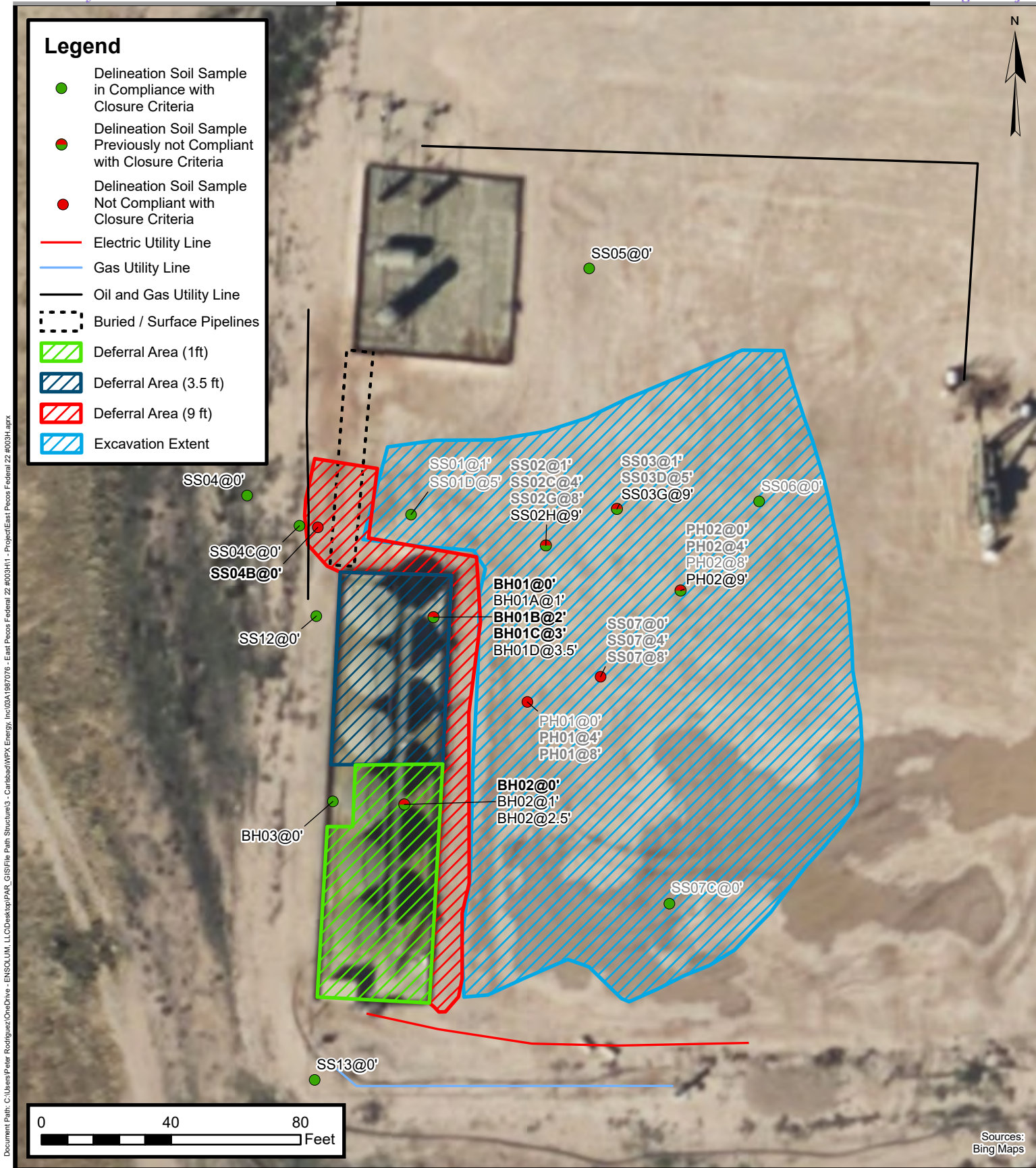
Delineation Soil Sample Locations

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number: nAPP2310336531
Unit M, Sec. 22, T 26S, R29E, Eddy
Eddy County, New Mexico

FIGURE

2





Area of Requested Deferral

WPX Energy Permian, LLC
 East Pecos Federal 22 #003H
 Incident Number: nAPP2310336531
 Unit M, Sec. 22, T 26S, R29E
 Eddy County, New Mexico

FIGURE

4



Tables

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 East Pecos Federal 22 #003H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	4/11/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	454
SS01D	4/11/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
SS02	4/11/2023	1	<0.0250	<0.0500	<20.0	192	61.6	192	254	212
SS02C	4/11/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	916
SS02G	4/11/2023	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,410
SS02H	5/8/2023	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	411
SS03	4/11/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	665
SS03D	5/8/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	741
SS03G	5/8/2023	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	503
SS04	4/11/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.6
SS04B	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	793
SS04C	8/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS05	4/11/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	566
SS06	4/11/2023	0	<0.0250	<0.0500	<20.0	63.3	<50.0	63.3	63.3	<20.0
SS07	4/11/2023	0	<0.0250	<0.0500	<20.0	193	233	193	426	1,320
SS07	7/16/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,210
SS07	7/16/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	987
SS07C	5/8/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS12	4/17/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	72.9
SS13	4/17/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	21.1

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 East Pecos Federal 22 #003H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH01	4/17/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,170
BH01A	4/17/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	583
BH01B	4/17/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	773
BH01C	4/17/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	775
BH01D	4/17/2023	3.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	448
BH02	1/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,730
BH02	1/18/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	475
BH02	1/18/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	476
BH03	1/18/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	230
PH01	7/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	262
PH01	7/16/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,350
PH01	7/16/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,420
PH02	7/16/2024	0	<0.0250	<0.0250	<20.0	8,380	3,440	8,380	11,820	8,280
PH02	7/16/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,740
PH02	7/16/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	486
PH02	7/16/2024	9	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	75.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 East Pecos Federal 22-3H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.7
FS02	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.2
FS03	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	119
FS04	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.3
FS05	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.7
FS06	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	182
FS07	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.5
FS08	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.5
FS09	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.0
FS10	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	64.4
FS11	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
FS12	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.7
FS13	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.3
FS14	8/20/2024	9	<0.0250	<0.0500	<20.0	25.6	<50.0	25.6	25.6	131
FS15	8/16/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.3
FS16	8/15/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	263
FS17	8/16/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS18	8/16/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	59.5
FS19	8/16/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.1
FS20	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.2
FS21	8/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93.8
FS22	8/20/2024	9	<0.0250	<0.0500	<20.0	35.9	<50.0	35.9	35.9	<200
FS23	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.8
FS24	9/20/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS25	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	79.7
FS26	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
FS27	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
FS28	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	166
FS29	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145
FS30	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	125
FS31	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	215
FS32	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	150
FS33	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
FS34	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 East Pecos Federal 22-3H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS35	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.6
FS36	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	78.7
FS37	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
FS38	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108
FS39	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	78.6
FS40	8/29/2024	2-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	132
FS41	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	314
FS42	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.3
FS43	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136
FS44	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.0
FS45	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	164
FS46	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	77.3
FS47	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.2
FS48	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	136
FS49	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.4
FS50	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS51	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	59.1
FS52	8/29/2024	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 East Pecos Federal 22-3H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Sidewall Soil Samples										
SW01	9/20/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	482
SW02	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.2
SW03	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	311
SW04	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	374
SW05	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
SW06	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	276
SW07	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	488
SW08	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
SW09	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	65.2
SW10	8/28/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	210
SW11	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	435
SW12	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	152
SW13	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
SW14	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	50.7
SW15	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	403
SW16	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	718
SW17	8/16/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,310
SW18	8/15/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,110
SW19	8/15/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,070
SW20	8/15/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,600
SW21	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,960
SW22	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,400
SW23	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
SW24	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
SW25	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	205
SW26	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.4
SW27	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	560



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 East Pecos Federal 22-3H
 WPX Energy Permian, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Sidewall Soil Samples										
SW21	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,960
SW22	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,400
SW23	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,640
SW24	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	329
SW25	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	205
SW26	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.4
SW27	8/29/2024	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	560

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2310336531
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmn.com	Incident # (assigned by OCD) nAPP2310336531
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude _32.0210342_ Longitude ____-103.9788208_____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL 22 #003H	Site Type Oil Well
Date Release Discovered: 04/04/2023	API# (if applicable) 30-015-42285

Unit Letter	Section	Township	Range	County
M	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 3
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 23
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Water dump stuck open causing tanks to high level. Tank high level switch activated but did not stop pumping unit. Majority of fluids containment in lined secondary containment. Small hole in containment allowed approx. 6 bbls of fluids to impact pad surface. All fluids remained on pad.


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

Incident ID	nAPP2310336531
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to Mike Bratcher and Rosa Romero on 4/4/2023.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>4/13/2023</u>
email: <u>jim.raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: _____ Date: _____	

Incident ID	nAPP2310336531
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>55</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2310336531
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley

Title: Environmental Professional

Signature: _____

Date: 09/30/2024

email: jim.raley@dvn.com

Telephone: 575-689-7597

OCD Only

Received by: _____

Date: _____

Incident ID	nAPP2310336531
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional

Signature: _____ Date: 09/30/2024

email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____



APPENDIX B

Well Record & Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4630			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 1	SECONDS 17.32	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	58	30.17	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SW Sec.22 T26S R29S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/15/2022		DRILLING ENDED 6/15/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	
	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)		STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		DATE STATIC MEASURED 6/15/2022, 7/13/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 55		±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE

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

FILE NO.	C-4630	POD NO.	POD 1	TRN NO.	726199
LOCATION	26S 29E 22 3.4.3	WELL TAG ID NO.	NA	PAGE 1 OF 2	

05C ON JUL 15 2022 AM 11:34

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	C-4630	POD NO.	POD1
LOCATION	2102 799 27	WELL TAG ID NO	72619A
	3.4-3		11A
			PAGE 2 OF 2



National Water Information System: Web Interface

Data Category:
Water Quality

Geographic Area:
United States

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

[Full News](#)

Water Quality Samples for the Nation

To view additional data-quality attributes, output the results using these options: one result per row, expanded attributes.
Additional precautions are [here](#).

USGS 320118104574401 26S.29E.22.330

Available data for this site Water-Quality: Field/Lab samples

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°01'20", Longitude 103°58'42" NAD27
Land-surface elevation 2,885 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

[Parameter Group Period of Record table](#)

[Inventory of available water-quality data for printing](#)

[Inventory of water-quality data with retrieval](#)

[Tab-separated data, one result per row](#)

[Tab-separated data one sample per row with remark codes combined with values](#)

[Tab-separated data one sample per row with tab-delimiter for remark codes](#)

[Reselect output format](#)

Sample Datetime

1975-03-25

Time datum

MDT

Time datum reliability code

T

Sample Medium Code

WG

Depth of well, feet below LSD (72008)

115.0


29


- [Questions or Comments](#)
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- [Data Tips](#)
- [Explanation of terms](#)
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APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: SS01		Date: 4/11/23	
								Site Name: East Pecos Federal 22 #003H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Backhoe	
Coordinates: 32.020933, -103.9799410								Hole Diameter: ~3ft		Total Depth: 6 ft	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	1,316	22.5	Y	SS01	1	1	SP-SM	SAND, odor, staining, light brown sand, small pieces of CALICHE, poorly sorted			
Wet	1,764	7.9	Y	SS01A	2	2	SP-SM	SAND, odor, staining, light brown sand, poorly sorted			
Wet	1,646	2.1	Y	SS01B	3	3	SP-SM	SAND, odor, staining, poorly sorted, medium brown, pieces of CALICHE gravel			
Wet	582	1.5	Y	SS01C	4	4	SP-SM	SAND, staining, poorly sorted, medium brown, pieces of CALICHE gravel			
Wet	470	2.0	N	SS01D	5	5	SP-SM	SAND, poorly sorted, medium brown sand, pieces of CALICHE gravel			
Wet	582	1.1	N	SS01E	6	6	SP-SM	SAND, poorly sorted, dark brown sand, pieces of CALICHE gravel, coarse			
Total Depth 6'											


								Sample Name: SS02		Date: 4/11/23	
								Site Name: East Pecos Federal 22 #003H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Backhoe	
Coordinates: 32.020908, -103.979255								Hole Diameter: ~3ft		Total Depth: 8'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Dry	246	21.4	Y	SS02	1	1	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand			
Wet	3,69	35	Y	SS02A	2	2	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand			
Wet	868	3.9	Y	SS02B	3	3	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand			
Wet	1,646	1.0	Y	SS02C	4	4	SP-SM	SAND, odor, staining, poorly sorted, cohesive light brown sand with CALICHE gravel			
Wet	868	1.0	N	SS02D	5	5	SP-SM	SAND, odor, staining, poorly sorted, cohesive light brown sand with CALICHE gravel			
Wet	789	5.0	N	SS02E	6	6	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand with CLAY chunks			
Wet	649	0.9	N	SS02F	7	7	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand with CLAY chunks			
Wet	582	1.1	N	SS02G	8	8	SP-SM	SAND, odor, staining, poorly sorted, cohesive dark brown sand with CLAY chunks			
Total Depth 8'											

								Sample Name: SS03		Date: 5/8/23	
								Site Name: East Pecos 22-3H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole		Method: Backhoe	
Coordinates: 32.0208407, -103.9791165								Hole Diameter: 2'		Total Depth: 10'	
Comments: Field screening conducted with Chloride Titration Kit, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	470	0.8	Y	SS02	1	0	SP-SM	SAND, poorly sorted, cohesive with poor grading TD at 1 ft bgs			
D	1000		N	SS03A	3	3	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	1200		N	SS03B	4	4	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	700		N	SS03D	5	5	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	500		N	SS03E	6	6	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	700		N	SS03F	7	7	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	400	N		SS02H	9	9	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
D	450	N		SS02I	10	10	SP-SM	Sand: fine - med grained, large sized gravel, no odor, non plastic , non cohesive, light brown			
Total depth 10'											

 ENSOLUM								Sample Name: BH01		Date: 4/17/23	
								Site Name: East Pecos Federal 22 #003H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Ronni Hayes		Method: Hand Auger	
Coordinates: 32.020843, -103.979386								Hole Diameter: ~6"		Total Depth: 3.5'	
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. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	2,604	5.5	Y	BH01	0.5	0	SP-SM	SAND, tan colored, noncohesive, staining, odor, non-plastic, poorly graded			
Moist	1,036	5.3	Y	BH01A	1	1	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor			
Moist	1,310	2.7	N	BH01B	2	2	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor			
Moist	873	1.5	N	BH01C	3	3	SP-SM	SAND, moist, noncohesive, dark brown, low plasticity, poorly graded, odor, some limestone gravel			
Moist	873	3.5	N	BH01D	3.5	3.5	SP-SM	SAND, moist, noncohesive, dark brown, low plasticity, poorly graded, odor, some limestone gravel			
Total Depth 3.5'											

								Sample Name: BH02		Date: 1/18/24			
								Site Name: East Pecos Federal 22 #003H					
								Incident Number: nAPP2310336531					
								Job Number: 03A1987076					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger			
Coordinates: 32.0206901, -103.9794003								Hole Diameter: ~6"		Total Depth: 2.5			
Comments: Field screening conducted with Mohr Chloride Titration method for chloride and Petroflag for TPH. Chloride test performed with 1:1 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
Dry	1,200		N	BH02	0	0	CCHE	Caliche					
Moist	500		N	BH02	1	1	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor					
Moist	500		N	BH02	2	2	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor					
Moist	300	58	N	BH02	2.5	2.5	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor					
Total Depth 2.5'													

								Sample Name: BH03		Date: 1/18/24	
								Site Name: East Pecos Federal 22 #003H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.0206935, -103.9794761								Hole Diameter: ~6"		Total Depth: 1'	
Comments: Field screening conducted with Mohr Chloride Titration method for chloride and Petroflag for TPH. Chloride test performed with 1:1 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Dry	250	57	N	BH02	0	0	CCHE	Caliche			
Moist			N	BH02	1	1	SP-SC	SAND, moist, cohesive, dark brown, small clods, medium plasticity, poorly graded, odor			
Total Depth 1'											

								Sample Name: SS07		Date: 7/16/2024	
								Site Name: East Pecos Federal 22-3H			
								Incident Number: nAPP2310336531			
								Job Number: 03A1987076			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Trackhoe	
Coordinates: 32.02079, -103.97920								Hole Diameter: 4'		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	SS07	0	0	CCHE	Caliche - Tan, No stain, No odor, Large gravel			
D			N	SS07	1	1	ML	Silt with gravel - Dark brown, Non-cohesive, Large gravel			
D			N	SS07	2	2		Silt with gravel - Tan, Non-cohesive, Large gravel			
D	1,181		N	SS07	3	3					
D	1,825		N	SS07	4	4					
D	1,478		N	SS07	5	5					
D			N	SS07	6	6					
D	1,372		N	SS07	7	7					
D	1,271		N	SS07	8	8	LS	Limestone Conglomerate - Silica rock on a calcite cement			
						9					
Total Depth 8'											



APPENDIX D

Photographic Log



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 1 Date: 04/05/2023
Description: Site Signage
View: Facing West



Photograph 2 Date: 04/05/2023
Description: Release extent during initial assesment
View: Facing Southwest



Photograph 3 Date: 04/05/2023
Description: Release extent duting initial assessment
View: Facing West



Photograph 4 Date: 04/05/2023
Description: Initial assessment
View: Facing Northwest



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 5 Date: 04/05/2023
Description: Initial assessment
View: Facing Southwest



Photograph 6 Date: 04/11/2023
Description: Delineation activities
View: Facing Northeast



Photograph 7 Date: 04/11/2023
Description: Delineation activities
View: Facing East



Photograph 8 Date: 04/11/2023
Description: Initial assessment
View: Facing East



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 9 Date: 04/11/2023
Description: Undamaged liner during inspection
View: Northeast



Photograph 10 Date: 04/11/2023
Description: Undamaged liner during inspection
View: Facing Southwest



Photograph 11 Date: 01/11/2023
Description: Damaged liner during inspection
View: Facing North



Photograph 12 Date: 04/11/2023
Description: Damaged liner during inspection
View: Facing West



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 13 Date: 04/17/2023
Description: Prior to liner delineation
View: Facing Northwest



Photograph 14 Date: 04/17/2023
Description: Liner delineation activities
View: Facing West



Photograph 15 Date: 04/17/2023
Description: Liner delineation activities
View: Facing North



Photograph 16 Date: 04/17/2023
Description: Post liner delineation activities
View: Facing Southwest



Photographic Log

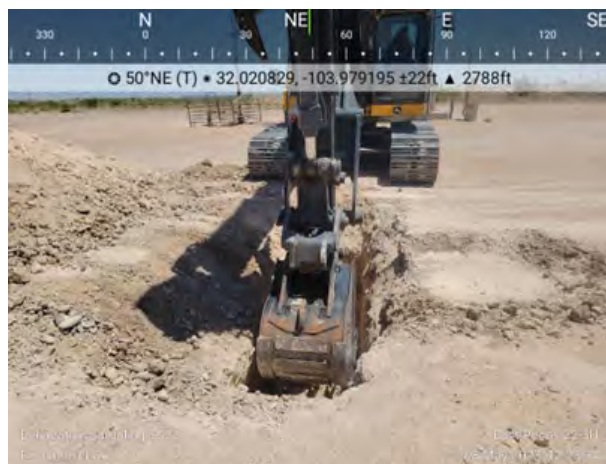
WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 17 Date: 05/08/2023
Description: Delineation sampling
View: Facing Northwest



Photograph 18 Date: 05/08/2023
Description: Delineation sampling
View: East



Photograph 19 Date: 05/08/2023
Description: Delineation sampling
View: Facing Northeast

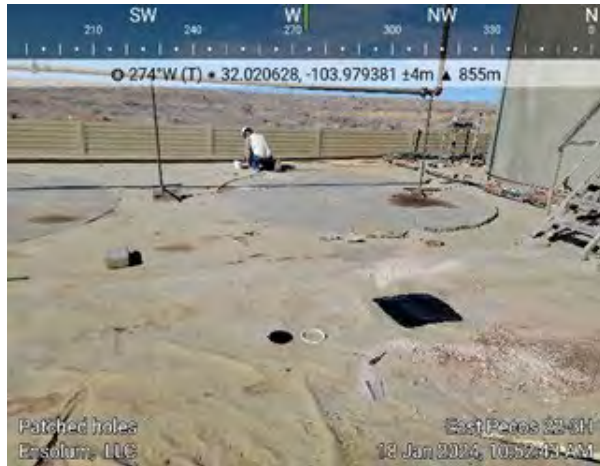


Photograph 20 Date: 01/18/2024
Description: Delineation sampling
View: Facing West



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 21 Date: 01/18/2024
Description: Delineation sampling
View: Facing West



Photograph 22 Date: 07/16/2024
Description: Delineation sampling
View: West



Photograph 23 Date: 08/13/2024
Description: Excavation
View: East



Photograph 24 Date: 08/15/2024
Description: Excavation
View: Southeast



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 25
Description: Excavation
View: Southeast

Date: 08/15/2024



Photograph 26
Description: Excavation
View: Southwest

Date: 08/16/2024



Photograph 27
Description: Hydrovac
View: East

Date: 08/19/2024



Photograph 28
Description: Excavation
View: West

Date: 08/19/2024



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 29
Description: Excavation
View: Northeast

Date: 08/20/2024



Photograph 30
Description: Hydrovac area
View: Northwest

Date: 08/22/2024



Photograph 31
Description: Excavation
View: West

Date: 08/23/2024



Photograph 32
Description: Excavation
View: Southwest

Date: 08/27/2024



Photographic Log

WPX Energy Permian, LLC
East Pecos Federal 22 #003H
Incident Number nAPP2310336531



Photograph 33
Description: Excavation
View: South

Date: 08/28/2024



Photograph 34
Description: Excavation
View: East

Date: 08/29/2024



Photograph 35
Description: Excavation
View: Southwest

Date: 08/29/2024



Photograph 36
Description: Excavation
View: West

Date: 08/29/2024



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22 #003H

Work Order: E304066

Job Number: 01058-0007

Received: 4/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/19/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos Federal 22 #003H
Workorder: E304066
Date Received: 4/13/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2023 8:20:00AM, under the Project Name: East Pecos Federal 22 #003H.

The analytical test results summarized in this report with the Project Name: East Pecos Federal 22 #003H 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 14:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01	E304066-01A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS01D	E304066-02A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS02	E304066-03A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS02C	E304066-04A	Solid	04/11/23	04/13/23	Glass Jar, 2 oz.
SS02G	E304066-05A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS03	E304066-06A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS04	E304066-07A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS05	E304066-08A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS06	E304066-09A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.
SS07	E304066-10A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:00:07PM

SS01

E304066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.3 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	99.8 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315067
Chloride	454	20.0	1	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:00:07PM

SS01D

E304066-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315067
Chloride	329	20.0	1	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:00:07PM

SS02

E304066-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	192	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	61.6	50.0	1	04/13/23	04/15/23	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315067
Chloride	212	20.0	1	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported: 4/19/2023 2:00:07PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

SS02C

E304066-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	94.5 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	96.1 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	916	20.0	1	04/13/23	04/14/23	

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:00:07PM

SS02G

E304066-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.1 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
<i>Surrogate: n-Nonane</i>	96.8 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	1410	100	5	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/19/2023 2:00:07PM
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SS03

E304066-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	97.1 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	665	20.0	1	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/19/2023 2:00:07PM
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SS04

E304066-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	97.1 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	41.6	20.0	1	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported: 4/19/2023 2:00:07PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

SS05

E304066-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	97.0 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	566	400	20	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/19/2023 2:00:07PM
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SS06

E304066-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2315068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	63.3	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/15/23	
Surrogate: n-Nonane	99.2 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2315067	
Chloride	ND	400	20	04/13/23	04/14/23	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:00:07PM

SS07

E304066-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	193	25.0	1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	233	50.0	1	04/13/23	04/15/23	
<i>Surrogate: n-Nonane</i>						
	97.3 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315067
Chloride	1320	400	20	04/13/23	04/14/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:00:07PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315068-BLK1)

Prepared: 04/13/23 Analyzed: 04/18/23

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	7.68		8.00		96.0	70-130			

LCS (2315068-BS1)

Prepared: 04/13/23 Analyzed: 04/18/23

Benzene	4.72	0.0250	5.00		94.5	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.5	70-130			
Toluene	4.84	0.0250	5.00		96.7	70-130			
o-Xylene	4.83	0.0250	5.00		96.5	70-130			
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike (2315068-MS1)

Source: E304067-01

Prepared: 04/13/23 Analyzed: 04/18/23

Benzene	3.95	0.0250	5.00	ND	79.0	54-133			
Ethylbenzene	3.93	0.0250	5.00	ND	78.6	61-133			
Toluene	4.04	0.0250	5.00	ND	80.8	61-130			
o-Xylene	4.01	0.0250	5.00	ND	80.3	63-131			
p,m-Xylene	8.01	0.0500	10.0	ND	80.1	63-131			
Total Xylenes	12.0	0.0250	15.0	ND	80.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		94.9	70-130			

Matrix Spike Dup (2315068-MSD1)

Source: E304067-01

Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	4.17	0.0250	5.00	ND	83.4	54-133	5.41	20	
Ethylbenzene	4.16	0.0250	5.00	ND	83.2	61-133	5.61	20	
Toluene	4.27	0.0250	5.00	ND	85.3	61-130	5.46	20	
o-Xylene	4.24	0.0250	5.00	ND	84.8	63-131	5.44	20	
p,m-Xylene	8.45	0.0500	10.0	ND	84.5	63-131	5.31	20	
Total Xylenes	12.7	0.0250	15.0	ND	84.6	63-131	5.35	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:00:07PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315068-BLK1) Prepared: 04/13/23 Analyzed: 04/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

LCS (2315068-BS2) Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2315068-MS2) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2315068-MSD2) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	0.591	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:00:07PM

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
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Blank (2315070-BLK1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

LCS (2315070-BS1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			

Matrix Spike (2315070-MS1)					Source: E304071-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			

Matrix Spike Dup (2315070-MSD1)					Source: E304071-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	4.46	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:00:07PM

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 (2315067-BLK1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Chloride	ND	20.0							
LCS (2315067-BS1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2315067-MS1)					Source: E304066-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Chloride	579	20.0	250	454	49.9	80-120			M2
Matrix Spike Dup (2315067-MSD1)					Source: E304066-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Chloride	542	20.0	250	454	35.3	80-120	6.54	20	M2

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 14:00

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

WO# 1061208201

Page 1 of 1

Client: <u>Devon Energy</u>					Bill To					Lab Use Only					TAT				EPA Program																			
Project: <u>East Pecos Federal 22 #0034</u>					Attention: <u>Jim Raley</u>					Lab WO# <u>E3040606</u>					Job Number <u>01058-0007</u>				1D	2D	3D	Standard	CWA	SDWA														
Project Manager: <u>Ashley Giovenag</u>					Address: <u>5315 Buena Vista Dr</u>					Analysis and Method									RCRA																			
Address: <u>3122 Natural Parks Hwy</u>					City, State, Zip <u>Carlsbad, NM 88220</u>																																	
City, State, Zip <u>Carlsbad, NM 88220</u>					Phone: <u>575-988-0655</u>					DRO/ORO by 8015					GRO/DRO by 8015				BTEX by 8021				VOC by 8260				Metals 6010				Chloride 300.0				BGDx NM			
Email: <u>agiovenag@ensdum.com</u>					Report due by:					Email: <u>jim.raley@devon.com</u>																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																																
0900	4/11/23	S	1	SS01	1																																	
1010				SS01D	2																																	
1045				SS02	3																																	
1118				SS02C	4																																	
1200				SS02G	5																																	
1255				SS03	6																																	
1400				SS04	7																																	
1430				SS05	8																																	
1350				SS06	9																																	
1355				SS07	10																																	
Additional Instructions: <u>Kept on ice, CC agiovenag@ensdum.com & jim.raley@devon.com on sample results</u>																																						
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>[Signature]</u>					Date <u>4/11/23</u>		Time <u>1702</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>4-12-23</u>		Time <u>9:18</u>		Lab Use Only																				
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>4-12-23</u>		Time <u>1500</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>4-12-23</u>		Time <u>1500</u>		Received on ice: <u>(Y) N</u>																				
Relinquished by: (Signature) <u>[Signature]</u>					Date <u>4/12/23</u>		Time <u>1445</u>		Received by: (Signature) <u>[Signature]</u>					Date <u>4/13/23</u>		Time <u>8:20</u>		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 Analytical Laboratory

Printed: 4/13/2023 10:30:35AM

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:	04/13/23 08:20	Work Order ID:	E304066
Phone:	(505) 382-1211	Date Logged In:	04/12/23 16:46	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	04/19/23 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? 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22 #003H

Work Order: E304067

Job Number: 01058-0007

Received: 4/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/19/23



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: East Pecos Federal 22 #003H
Workorder: E304067
Date Received: 4/13/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2023 8:20:00AM, under the Project Name: East Pecos Federal 22 #003H.

The analytical test results summarized in this report with the Project Name: East Pecos Federal 22 #003H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
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labadmin@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 14:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SSOIE	E304067-01A	Soil	04/11/23	04/13/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/19/2023 2:01:34PM

SSOIE

E304067-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Benzene	ND	0.0250	1	04/13/23	04/14/23	
Ethylbenzene	ND	0.0250	1	04/13/23	04/14/23	
Toluene	ND	0.0250	1	04/13/23	04/14/23	
o-Xylene	ND	0.0250	1	04/13/23	04/14/23	
p,m-Xylene	ND	0.0500	1	04/13/23	04/14/23	
Total Xylenes	ND	0.0250	1	04/13/23	04/14/23	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2315068
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/13/23	04/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		04/13/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2315062
Diesel Range Organics (C10-C28)	ND	25.0	1	04/13/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/13/23	04/13/23	
Surrogate: n-Nonane	93.0 %	50-200		04/13/23	04/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2315067
Chloride	904	20.0	1	04/13/23	04/14/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:01:34PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315068-BLK1) Prepared: 04/13/23 Analyzed: 04/18/23

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	7.68		8.00		96.0	70-130			

LCS (2315068-BS1) Prepared: 04/13/23 Analyzed: 04/18/23

Benzene	4.72	0.0250	5.00		94.5	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.5	70-130			
Toluene	4.84	0.0250	5.00		96.7	70-130			
o-Xylene	4.83	0.0250	5.00		96.5	70-130			
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike (2315068-MS1) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/18/23

Benzene	3.95	0.0250	5.00	ND	79.0	54-133			
Ethylbenzene	3.93	0.0250	5.00	ND	78.6	61-133			
Toluene	4.04	0.0250	5.00	ND	80.8	61-130			
o-Xylene	4.01	0.0250	5.00	ND	80.3	63-131			
p,m-Xylene	8.01	0.0500	10.0	ND	80.1	63-131			
Total Xylenes	12.0	0.0250	15.0	ND	80.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		94.9	70-130			

Matrix Spike Dup (2315068-MSD1) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/14/23

Benzene	4.17	0.0250	5.00	ND	83.4	54-133	5.41	20	
Ethylbenzene	4.16	0.0250	5.00	ND	83.2	61-133	5.61	20	
Toluene	4.27	0.0250	5.00	ND	85.3	61-130	5.46	20	
o-Xylene	4.24	0.0250	5.00	ND	84.8	63-131	5.44	20	
p,m-Xylene	8.45	0.0500	10.0	ND	84.5	63-131	5.31	20	
Total Xylenes	12.7	0.0250	15.0	ND	84.6	63-131	5.35	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:01:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2315068-BLK1) Prepared: 04/13/23 Analyzed: 04/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

LCS (2315068-BS2) Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike (2315068-MS2) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2315068-MSD2) Source: E304067-01 Prepared: 04/13/23 Analyzed: 04/14/23

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.5	70-130	0.591	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:01:34PM

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 (2315062-BLK1)					Prepared: 04/12/23 Analyzed: 04/13/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	50-200			

LCS (2315062-BS1)					Prepared: 04/12/23 Analyzed: 04/13/23				
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike (2315062-MS1)					Source: E304057-09		Prepared: 04/12/23 Analyzed: 04/13/23		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	49.4		50.0		98.7	50-200			

Matrix Spike Dup (2315062-MSD1)					Source: E304057-09		Prepared: 04/12/23 Analyzed: 04/13/23		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	5.37	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/19/2023 2:01:34PM

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 (2315067-BLK1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Chloride	ND	20.0							
LCS (2315067-BS1)					Prepared: 04/13/23 Analyzed: 04/14/23				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2315067-MS1)					Source: E304066-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Chloride	579	20.0	250	454	49.9	80-120			M2
Matrix Spike Dup (2315067-MSD1)					Source: E304066-01		Prepared: 04/13/23 Analyzed: 04/14/23		
Chloride	542	20.0	250	454	35.3	80-120	6.54	20	M2

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/19/23 14:01

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

WO# 1061208201

Page 1 of 1

Client: <u>Devon Energy</u> Project: <u>East Pecos Federal ZZ #003H</u> Project Manager: <u>Ashley Giovengo</u> Address: <u>3122 National Parks Hwy</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-946-1355</u> Email: <u>agiovengo@ensdum.com</u> Report due by:					Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-1689-7597</u> Email: <u>jim.raley@dvn.com</u>					Lab Use Only Lab WO# <u>E304067</u> Job Number <u>01058-0007</u> Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 3000 BG DOC NM					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X				Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
1015	4/11/23	S	1	SS01E	1															
 RH 4/11/23 																				
Additional Instructions: <u>Kept on ice, please CC agiovengo@ensdum.com + jim.raley@dvn.com on sample results</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: (Y) N												
<u>[Signature]</u>		4/11/23	1705	<u>Michelle Gungl</u>		4-12-23	918													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 AVG Temp °C <u>4</u>												
<u>Michelle Gungl</u>		4-12-23	1500	<u>[Signature]</u>		4-12-23	1500													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
<u>[Signature]</u>		4/12/23	1945	<u>Caitlin Chute</u>		4/13/23	8:20													
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: 4/13/2023 10:32:33AM

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:	Devon Energy - Carlsbad	Date Received:	04/13/23 08:20	Work Order ID:	E304067
Phone:	(505) 382-1211	Date Logged In:	04/12/23 16:48	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	04/19/23 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? 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.

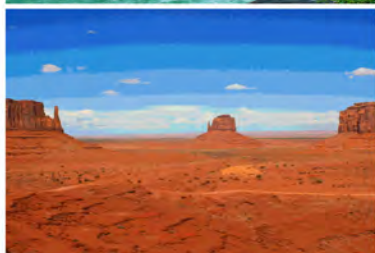
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22 #003H

Work Order: E304091

Job Number: 01058-0007

Received: 4/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/25/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/25/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos Federal 22 #003H
Workorder: E304091
Date Received: 4/19/2023 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/19/2023 7:00:00AM, under the Project Name: East Pecos Federal 22 #003H.

The analytical test results summarized in this report with the Project Name: East Pecos Federal 22 #003H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/25/23 15:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS12	E304091-01A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
SS13	E304091-02A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
BH01	E304091-03A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
BH01A	E304091-04A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
BH01B	E304091-05A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
BH01C	E304091-06A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.
BH01D	E304091-07A	Soil	04/17/23	04/19/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/25/2023 3:08:50PM

SS12

E304091-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	103 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	104 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	72.9	20.0	1	04/19/23	04/19/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/25/2023 3:08:50PM
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SS13

E304091-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		103 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/19/23	04/19/23	
Surrogate: Toluene-d8		103 %	70-130	04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane		111 %	50-200	04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	21.1	20.0	1	04/19/23	04/20/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/25/2023 3:08:50PM
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BH01

E304091-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	105 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	105 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	107 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	2170	40.0	2	04/19/23	04/20/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/25/2023 3:08:50PM
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BH01A
E304091-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	104 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	104 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	105 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	583	40.0	2	04/19/23	04/20/23	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/25/2023 3:08:50PM

BH01B

E304091-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	102 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	102 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	96.9 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	773	20.0	1	04/19/23	04/20/23	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #003H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 4/25/2023 3:08:50PM
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BH01C
E304091-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	95.8 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	102 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	95.8 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	102 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	103 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	775	200	10	04/19/23	04/20/23	

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22 #003H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
4/25/2023 3:08:50PM

BH01D

E304091-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Benzene	ND	0.0250	1	04/19/23	04/19/23	
Ethylbenzene	ND	0.0250	1	04/19/23	04/19/23	
Toluene	ND	0.0250	1	04/19/23	04/19/23	
o-Xylene	ND	0.0250	1	04/19/23	04/19/23	
p,m-Xylene	ND	0.0500	1	04/19/23	04/19/23	
Total Xylenes	ND	0.0250	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	101 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316025
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/23	04/19/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		04/19/23	04/19/23	
Surrogate: 1,2-Dichloroethane-d4	112 %	70-130		04/19/23	04/19/23	
Surrogate: Toluene-d8	101 %	70-130		04/19/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/23	04/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/23	04/19/23	
Surrogate: n-Nonane	103 %	50-200		04/19/23	04/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316028
Chloride	448	100	5	04/19/23	04/20/23	



Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/25/2023 3:08:50PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

Blank (2316025-BLK1)

Prepared: 04/19/23 Analyzed: 04/19/23

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: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2316025-BS1)

Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.33	0.0250	2.50		93.4	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.7	70-130			
Toluene	2.34	0.0250	2.50		93.5	70-130			
o-Xylene	2.29	0.0250	2.50		91.6	70-130			
p,m-Xylene	4.58	0.0500	5.00		91.5	70-130			
Total Xylenes	6.87	0.0250	7.50		91.5	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.568		0.500		114	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike (2316025-MS1)

Source: E304091-02 Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.60	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.59	0.0250	2.50	ND	104	48-130			
o-Xylene	2.53	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.09	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.570		0.500		114	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2316025-MSD1)

Source: E304091-02 Prepared: 04/19/23 Analyzed: 04/19/23

Benzene	2.20	0.0250	2.50	ND	88.0	48-131	16.6	23	
Ethylbenzene	2.18	0.0250	2.50	ND	87.1	45-135	15.6	27	
Toluene	2.22	0.0250	2.50	ND	88.9	48-130	15.4	24	
o-Xylene	2.16	0.0250	2.50	ND	86.6	43-135	15.6	27	
p,m-Xylene	4.34	0.0500	5.00	ND	86.8	43-135	16.0	27	
Total Xylenes	6.50	0.0250	7.50	ND	86.7	43-135	15.9	27	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.542		0.500		108	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/25/2023 3:08:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2316025-BLK1) Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.553		0.500		111	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2316025-BS2) Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.557		0.500		111	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2316025-MS2) Source: E304091-02 Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2316025-MSD2) Source: E304091-02 Prepared: 04/19/23 Analyzed: 04/19/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	8.26	20	
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/25/2023 3:08:50PM

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
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Blank (2316026-BLK1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	50-200			

LCS (2316026-BS1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

Matrix Spike (2316026-MS1)					Source: E304089-03		Prepared: 04/19/23 Analyzed: 04/19/23		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	33.6		50.0		67.2	50-200			

Matrix Spike Dup (2316026-MSD1)					Source: E304089-03		Prepared: 04/19/23 Analyzed: 04/19/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.96	20	
Surrogate: n-Nonane	35.5		50.0		71.0	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #003H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	4/25/2023 3:08:50PM

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 (2316028-BLK1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Chloride	ND	20.0							
LCS (2316028-BS1)					Prepared: 04/19/23 Analyzed: 04/19/23				
Chloride	269	20.0	250		108	90-110			
Matrix Spike (2316028-MS1)					Source: E304091-01		Prepared: 04/19/23 Analyzed: 04/19/23		
Chloride	341	20.0	250	72.9	107	80-120			
Matrix Spike Dup (2316028-MSD1)					Source: E304091-01		Prepared: 04/19/23 Analyzed: 04/20/23		
Chloride	341	20.0	250	72.9	107	80-120	0.277	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:	East Pecos Federal 22 #003H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	04/25/23 15:08

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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: <u>Devon Energy</u> Project: <u>East Pecos Federal 22 #003H</u> Project Manager: <u>Ashley Giovengo</u> Address: <u>3122 National Parks Hwy</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-988-1055</u> Email: <u>agiovengo@ensulm.com</u> Report due by:					Bill To Attention: <u>Jim Raley</u> Address: <u>5315 Buena Vista Dr</u> City, State, Zip: <u>Carlsbad, NM 88220</u> Phone: <u>575-689-7547</u> Email: <u>jim.raley@dvn.com</u>					Lab Use Only Lab WO# <u>E304091</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 <u>RG DUCNM</u>					TAT 1D 2D 3D Standard X EPA Program CWA SDWA RCRA State NM CO UT AZ TX X				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks							
1100	4/17/23	S	1	SS12	1						X								
1105	4/17/23	S	1	SS13	2						X								
0945	4/17/23	S	1	BH01	3						X								
1010	4/17/23	S	1	BH01A	4						X								
1015	4/17/23	S	1	BH01B	5						X								
1415	4/17/23	S	1	BH01C	6						X								
1530	4/17/23	S	1	BH01D	7						X								
4/17/23 BH 4/17/23																			
Additional Instructions: <u>Kept on ice, CC agiovengo@ensulm.com & jim.raley@dvn.com on sample results</u>																			
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>Ronni Hughes</u>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y / N</u>											
<u>Michelle Cuyals</u>		4/18/23	1145	<u>Michelle Cuyals</u>		4-18-23	1145												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 AVG Temp °C <u>4</u>											
<u>Michelle Cuyals</u>		4-18-23	1700	<u>Andrew Musso</u>		4/18/23	1700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
<u>Andrew Musso</u>		4/18/23	2300	<u>Andrew Musso</u>		4-19-23	0700												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 4/19/2023 8:33:38AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	04/19/23 07:00	Work Order ID:	E304091
Phone:	(505) 382-1211	Date Logged In:	04/18/23 15:59	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	04/25/23 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? 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: East Pecos 22-3H

Work Order: E305059

Job Number: 01058-0007

Received: 5/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/16/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/16/23



Ashley Giovengo
3122 National Parks Hwy
Carlsbad, NM 88220

Project Name: East Pecos 22-3H
Workorder: E305059
Date Received: 5/10/2023 8:27:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/10/2023 8:27:00AM, under the Project Name: East Pecos 22-3H.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported: 05/16/23 11:27
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04A - 0'	E305059-01A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.
SS02H - 9'	E305059-02A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.
SS02I - 10'	E305059-03A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.
SS03G - 9'	E305059-04A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.
SS07C - 0'	E305059-05A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.
SS03D - 5'	E305059-06A	Soil	05/08/23	05/10/23	Glass Jar, 2 oz.



Sample Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 5/16/2023 11:27:14AM
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SS04A - 0'
E305059-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2319038	
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2319038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2319048	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
Surrogate: n-Nonane	89.0 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2319068	
Chloride	40.1	20.0	1	05/12/23	05/15/23	



Sample Data

Ensolum, LLC
3122 National Parks Hwy
Carlsbad NM, 88220

Project Name: East Pecos 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
5/16/2023 11:27:14AM

SS02H - 9'

E305059-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2319048
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
<i>Surrogate: n-Nonane</i>						
	88.3 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319068
Chloride	411	20.0	1	05/12/23	05/15/23	



Sample Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 5/16/2023 11:27:14AM
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SS02I - 10'
E305059-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2319048
Diesel Range Organics (C10-C28)	80.3	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	132	50.0	1	05/10/23	05/11/23	
<i>Surrogate: n-Nonane</i>						
	92.3 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319068
Chloride	394	20.0	1	05/12/23	05/15/23	



Sample Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 5/16/2023 11:27:14AM
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SS03G - 9'
E305059-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2319048
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
<i>Surrogate: n-Nonane</i>						
	91.8 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319068
Chloride	503	200	10	05/12/23	05/15/23	



Sample Data

Ensolum, LLC
3122 National Parks Hwy
Carlsbad NM, 88220

Project Name: East Pecos 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
5/16/2023 11:27:14AM

SS07C - 0'

E305059-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2319048
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2319068
Chloride	ND	200	10	05/12/23	05/15/23	



Sample Data

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported: 5/16/2023 11:27:14AM
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SS03D - 5'
E305059-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319038	
Benzene	ND	0.0250	1	05/10/23	05/12/23	
Ethylbenzene	ND	0.0250	1	05/10/23	05/12/23	
Toluene	ND	0.0250	1	05/10/23	05/12/23	
o-Xylene	ND	0.0250	1	05/10/23	05/12/23	
p,m-Xylene	ND	0.0500	1	05/10/23	05/12/23	
Total Xylenes	ND	0.0250	1	05/10/23	05/12/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319038	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/10/23	05/12/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		05/10/23	05/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2319048	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/10/23	05/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/10/23	05/11/23	
<i>Surrogate: n-Nonane</i>						
	93.0 %	50-200		05/10/23	05/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2319068	
Chloride	741	200	10	05/12/23	05/15/23	

QC Summary Data

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2023 11:27:14AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319038-BLK1) Prepared: 05/10/23 Analyzed: 05/11/23

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	7.54		8.00		94.2	70-130			

LCS (2319038-BS1) Prepared: 05/10/23 Analyzed: 05/11/23

Benzene	3.99	0.0250	5.00		79.9	70-130			
Ethylbenzene	4.10	0.0250	5.00		82.0	70-130			
Toluene	4.20	0.0250	5.00		84.0	70-130			
o-Xylene	4.23	0.0250	5.00		84.6	70-130			
p,m-Xylene	8.34	0.0500	10.0		83.4	70-130			
Total Xylenes	12.6	0.0250	15.0		83.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike (2319038-MS1) Source: E305058-07 Prepared: 05/10/23 Analyzed: 05/11/23

Benzene	4.59	0.0250	5.00	ND	91.7	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.7	61-133			
Toluene	4.87	0.0250	5.00	ND	97.4	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike Dup (2319038-MSD1) Source: E305058-07 Prepared: 05/10/23 Analyzed: 05/11/23

Benzene	4.64	0.0250	5.00	ND	92.8	54-133	1.16	20	
Ethylbenzene	4.80	0.0250	5.00	ND	96.1	61-133	0.439	20	
Toluene	4.91	0.0250	5.00	ND	98.2	61-130	0.821	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	0.797	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	0.172	20	
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131	0.383	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2023 11:27:14AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2319038-BLK1) Prepared: 05/10/23 Analyzed: 05/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			

LCS (2319038-BS2) Prepared: 05/10/23 Analyzed: 05/11/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike (2319038-MS2) Source: E305058-07 Prepared: 05/10/23 Analyzed: 05/11/23

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.1	70-130			

Matrix Spike Dup (2319038-MSD2) Source: E305058-07 Prepared: 05/10/23 Analyzed: 05/11/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	1.15	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			



QC Summary Data

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2023 11:27:14AM

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
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Blank (2319048-BLK1)					Prepared: 05/10/23 Analyzed: 05/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.0		50.0		88.0	50-200			

LCS (2319048-BS1)					Prepared: 05/10/23 Analyzed: 05/11/23				
Diesel Range Organics (C10-C28)	242	25.0	250		96.9	38-132			
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			

Matrix Spike (2319048-MS1)					Source: E305059-03		Prepared: 05/10/23 Analyzed: 05/11/23		
Diesel Range Organics (C10-C28)	330	25.0	250	80.3	99.7	38-132			
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			

Matrix Spike Dup (2319048-MSD1)					Source: E305059-03		Prepared: 05/10/23 Analyzed: 05/11/23		
Diesel Range Organics (C10-C28)	312	25.0	250	80.3	92.5	38-132	5.63	20	
Surrogate: n-Nonane	44.9		50.0		89.9	50-200			



QC Summary Data

Ensolum, LLC	Project Name:	East Pecos 22-3H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	5/16/2023 11:27:14AM

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 (2319068-BLK1)					Prepared: 05/12/23 Analyzed: 05/15/23				
Chloride	ND	20.0							
LCS (2319068-BS1)					Prepared: 05/12/23 Analyzed: 05/15/23				
Chloride	271	20.0	250		108	90-110			
Matrix Spike (2319068-MS1)					Source: E305058-01		Prepared: 05/12/23 Analyzed: 05/15/23		
Chloride	294	20.0	250	23.9	108	80-120			
Matrix Spike Dup (2319068-MSD1)					Source: E305058-01		Prepared: 05/12/23 Analyzed: 05/15/23		
Chloride	296	20.0	250	23.9	109	80-120	0.618	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

Ensolum, LLC	Project Name:	East Pecos 22-3H	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	05/16/23 11:27

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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: Ensolum, LLC.					Bill To		Lab Use Only		TAT				EPA Program						
Project: East Pecos 22-3H							Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr		E 303059		01058-0007		x								
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220		Analysis and Method						RCRA						
City, State, Zip: Carlsbad NM, 88220					Phone: (575)689-7597		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: jim.raley@dnv.com									NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com					Report due by:														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks			
13:05	5/8/2023	Soil	1 Jar	SS04A - 0'	1														
11:03	5/8/2023	Soil	1 Jar	SS02H - 9'	2														
11:25	5/8/2023	Soil	1 Jar	SS02I - 10'	3											Do not run unless SS02H is over 600Cl or 100 TPH			
12:53	5/8/2023	Soil	1 Jar	SS03G - 9'	4														
11:12	5/8/2023	Soil	1 Jar	SS07C - 0'	5														
12:14	5/8/2023	Soil	1 Jar	SS03D - 5'	6														
Additional Instructions: Please cc Cole@ churton@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
Michelle Coughlin		5-9-23	8:20	Michelle Coughlin		5-9-23	9:30	Received on ice: Y/ N											
Michelle Coughlin		5-9-23	1700	Andrea Messo		5-9-23	1700	T1 T2 T3											
Andrea Messo		5-9-23	2300	Caitlin Manno		5/10/23	8:27	AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Envirotech Analytical Laboratory

Printed: 5/10/2023 9:46:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Ensolum, LLC	Date Received:	05/10/23 08:27	Work Order ID:	E305059
Phone:	(575) 988-0055	Date Logged In:	05/09/23 16:00	Logged In By:	Caitlin Mars
Email:	a.giovengo@ensolum.com	Due Date:	05/16/23 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? 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos 22-3H

Work Order: E401123

Job Number: 01058-0007

Received: 1/20/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/25/24

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: 1/25/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos 22-3H
Workorder: E401123
Date Received: 1/20/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/20/2024 6:00:00AM, under the Project Name: East Pecos 22-3H.

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

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

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

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

Respectfully,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/25/24 16:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02-0'	E401123-01A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
BH02-1'	E401123-02A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
BH02-2.5'	E401123-03A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
BH03-0'	E401123-04A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.
BH03-1'	E401123-05A	Soil	01/18/24	01/20/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported: 1/25/2024 4:47:35PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

BH02-0'

E401123-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane		99.9 %	50-200	01/23/24	01/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	1730	200	10	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported: 1/25/2024 4:47:35PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

BH02-1'

E401123-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	103 %	50-200		01/23/24	01/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	475	20.0	1	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 4:47:35PM
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BH02-2.5'

E401123-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.0 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	101 %	50-200		01/23/24	01/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	476	40.0	2	01/22/24	01/22/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 1/25/2024 4:47:35PM
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BH03-0'

E401123-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Benzene	ND	0.0250	1	01/22/24	01/22/24	
Ethylbenzene	ND	0.0250	1	01/22/24	01/22/24	
Toluene	ND	0.0250	1	01/22/24	01/22/24	
o-Xylene	ND	0.0250	1	01/22/24	01/22/24	
p,m-Xylene	ND	0.0500	1	01/22/24	01/22/24	
Total Xylenes	ND	0.0250	1	01/22/24	01/22/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2404011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/22/24	01/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		01/22/24	01/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2404019	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/23/24	01/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/23/24	01/23/24	
Surrogate: n-Nonane	97.6 %	50-200		01/23/24	01/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2404017	
Chloride	230	40.0	2	01/22/24	01/22/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 4:47:35PM

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
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Blank (2404011-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

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 7.78 8.00 97.2 70-130

LCS (2404011-BS1) Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.87 8.00 98.4 70-130

Matrix Spike (2404011-MS1) Source: E401123-05 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.18	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	99.9	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			

Surrogate: 4-Bromochlorobenzene-PID 8.06 8.00 101 70-130

Matrix Spike Dup (2404011-MSD1) Source: E401123-05 Prepared: 01/22/24 Analyzed: 01/22/24

Benzene	5.15	0.0250	5.00	ND	103	54-133	0.541	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133	0.453	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	0.503	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	0.452	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	0.486	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	0.475	20	

Surrogate: 4-Bromochlorobenzene-PID 8.07 8.00 101 70-130



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 4:47:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404011-BLK1) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS (2404011-BS2) Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike (2404011-MS2) Source: E401123-05 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2404011-MSD2) Source: E401123-05 Prepared: 01/22/24 Analyzed: 01/22/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130	0.531	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 4:47:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2404019-BLK1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			

LCS (2404019-BS1)					Prepared: 01/23/24 Analyzed: 01/23/24				
Diesel Range Organics (C10-C28)	205	25.0	250		82.0	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2404019-MS1)					Source: E401126-04		Prepared: 01/23/24 Analyzed: 01/23/24		
Diesel Range Organics (C10-C28)	197	25.0	250	ND	78.7	38-132			
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

Matrix Spike Dup (2404019-MSD1)					Source: E401126-04		Prepared: 01/23/24 Analyzed: 01/23/24		
Diesel Range Organics (C10-C28)	190	25.0	250	ND	75.9	38-132	3.66	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	1/25/2024 4:47:35PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2404017-BLK1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	ND	20.0							
LCS (2404017-BS1)					Prepared: 01/22/24 Analyzed: 01/22/24				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2404017-MS1)					Source: E401123-02		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	753	20.0	250	475	111	80-120			
Matrix Spike Dup (2404017-MSD1)					Source: E401123-02		Prepared: 01/22/24 Analyzed: 01/22/24		
Chloride	746	20.0	250	475	108	80-120	0.936	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:	East Pecos 22-3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	01/25/24 16:47

- 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: Devon					Bill To		Lab Use Only						TAT				EPA Program			
Project: East Pecos 22-3H					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr		E401123		00580007							x				
Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220		Analysis and Method											RCRA		
City, State, Zip: Carlsbad NM, 88220					Phone: (575)689-7597		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	State				
Phone: 575-988-0055					Email: jim.raley@dnv.com											NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com																x				
Report due by:																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks				
9:12	1/18/2024	Soil	1	BH02 - 0'	1									x						
9:45	1/18/2024	Soil	1	BH02 - 1'	2									x						
10:22	1/18/2024	Soil	1	BH02 - 2.5'	3									x						
9:13	1/18/2024	Soil	1	BH03 - 0'	4									x						
9:57	1/18/2024	Soil	1	BH03 - 1'	5									x			Do not run unless BH03 - 0' is > 600 Cl or 100 TPH			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, chamilton@ensolum.com, eharft@ensolum.com, iestrella@ensolum.com																				
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: Cole Burton																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
[Signature]		1-19-24	7:57	[Signature]		1-19-24	0757	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												
[Signature]		1-19-24	1520	[Signature]		1-19-24	1630													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
[Signature]		1-19-24	2300	[Signature]		1-20-24	1600	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: 1/22/2024 1:50:45PM

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:	01/20/24 06:00	Work Order ID:	E401123
Phone:	(505) 382-1211	Date Logged In:	01/20/24 06:14	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	01/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Sample E401123-05, COC remarks "Do not run unless BH03-0' is >600 Cl or 100 TPH"

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:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22 #3H

Work Order: E407139

Job Number: 01058-0007

Received: 7/18/2024

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
7/18/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/18/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos Federal 22 #3H
Workorder: E407139
Date Received: 7/18/2024 9:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2024 9:15:00AM, under the Project Name: East Pecos Federal 22 #3H.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/18/24 15:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-9'	E407139-01A	Solid	07/16/24	07/18/24	Glass Jar, 2 oz.
	E407139-01B	Solid	07/16/24	07/18/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22 #3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/18/2024 3:29:30PM
---	---	----------------------------------

PH02-9'
E407139-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2429068	
Benzene	ND	0.0250	1	07/18/24	07/18/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/18/24	
Toluene	ND	0.0250	1	07/18/24	07/18/24	
o-Xylene	ND	0.0250	1	07/18/24	07/18/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/18/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/18/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		07/18/24	07/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2429068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		07/18/24	07/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2429059	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/18/24	
Surrogate: n-Nonane	114 %	50-200		07/18/24	07/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2429065	
Chloride	75.1	20.0	1	07/18/24	07/18/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/18/2024 3:29:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429059-BLK1) Prepared: 07/18/24 Analyzed: 07/18/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	65.7		50.0		131	50-200			

LCS (2429059-BS1) Prepared: 07/18/24 Analyzed: 07/18/24

Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	61.1		50.0		122	50-200			

Matrix Spike (2429059-MS1) Source: E407136-01 Prepared: 07/18/24 Analyzed: 07/18/24

Diesel Range Organics (C10-C28)	1610	500	250	1330	112	38-132			
Surrogate: n-Nonane	70.2		50.0		140	50-200			

Matrix Spike Dup (2429059-MSD1) Source: E407136-01 Prepared: 07/18/24 Analyzed: 07/18/24

Diesel Range Organics (C10-C28)	1470	500	250	1330	59.5	38-132	8.50	20	
Surrogate: n-Nonane	71.5		50.0		143	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22 #3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/18/2024 3:29:30PM

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 (2429065-BLK1)					Prepared: 07/18/24 Analyzed: 07/18/24				
Chloride	ND	20.0							
LCS (2429065-BS1)					Prepared: 07/18/24 Analyzed: 07/18/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2429065-MS1)					Source: E407139-01		Prepared: 07/18/24 Analyzed: 07/18/24		
Chloride	327	20.0	250	75.1	101	80-120			
Matrix Spike Dup (2429065-MSD1)					Source: E407139-01		Prepared: 07/18/24 Analyzed: 07/18/24		
Chloride	319	20.0	250	75.1	97.7	80-120	2.41	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:	East Pecos Federal 22 #3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/18/24 15:29

- 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.



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 7/18/2024 9:41:39AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	07/18/24 09:15	Work Order ID:	E407139
Phone:	(505) 382-1211	Date Logged In:	07/17/24 16:21	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/18/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos 22-3H

Work Order: E407149

Job Number: 01058-0007

Received: 7/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/24/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: East Pecos 22-3H
Workorder: E407149
Date Received: 7/18/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2024 9:00:00AM, under the Project Name: East Pecos 22-3H.

The analytical test results summarized in this report with the Project Name: East Pecos 22-3H 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.

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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
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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/24/24 07:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07 - 4'	E407149-01A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
SS07 - 8'	E407149-02A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH01 - 0'	E407149-03A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH01 - 4'	E407149-04A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH01 - 8'	E407149-05A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH02 - 0'	E407149-06A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH02 - 4'	E407149-07A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.
PH02 - 8'	E407149-08A	Soil	07/16/24	07/18/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
---	--	----------------------------------

SS07 - 4'

E407149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		96.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		96.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		110 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	1210	40.0	2	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
---	--	----------------------------------

SS07 - 8'

E407149-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.2 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.2 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		113 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	987	200	10	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported: 7/24/2024 7:36:56AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

PH01 - 0'

E407149-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		108 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	262	200	10	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
---	--	----------------------------------

PH01 - 4'

E407149-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		111 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	2350	40.0	2	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
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PH01 - 8'

E407149-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		07/18/24	07/19/24	
Surrogate: Toluene-d8	97.5 %	70-130		07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		07/18/24	07/19/24	
Surrogate: Toluene-d8	97.5 %	70-130		07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane	113 %	50-200		07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	1420	20.0	1	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
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PH02 - 0'

E407149-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		99.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		99.6 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	8380	250	10	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	3440	500	10	07/18/24	07/20/24	
Surrogate: n-Nonane		127 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	8280	400	20	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
7/24/2024 7:36:56AM

PH02 - 4'

E407149-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		96.8 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		96.8 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		92.3 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	1740	100	5	07/18/24	07/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 7/24/2024 7:36:56AM
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PH02 - 8'

E407149-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Benzene	ND	0.0250	1	07/18/24	07/19/24	
Ethylbenzene	ND	0.0250	1	07/18/24	07/19/24	
Toluene	ND	0.0250	1	07/18/24	07/19/24	
o-Xylene	ND	0.0250	1	07/18/24	07/19/24	
p,m-Xylene	ND	0.0500	1	07/18/24	07/19/24	
Total Xylenes	ND	0.0250	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.9 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2429088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/24	07/19/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/18/24	07/19/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	07/18/24	07/19/24	
Surrogate: Toluene-d8		97.9 %	70-130	07/18/24	07/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2429087
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/24	07/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/24	07/20/24	
Surrogate: n-Nonane		119 %	50-200	07/18/24	07/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2429095
Chloride	486	20.0	1	07/18/24	07/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:36:56AM

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 (2429088-BLK1) Prepared: 07/18/24 Analyzed: 07/19/24

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: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

LCS (2429088-BS1) Prepared: 07/18/24 Analyzed: 07/19/24

Benzene	2.39	0.0250	2.50		95.6	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.1	70-130			
Toluene	2.26	0.0250	2.50		90.4	70-130			
o-Xylene	2.33	0.0250	2.50		93.3	70-130			
p,m-Xylene	4.71	0.0500	5.00		94.2	70-130			
Total Xylenes	7.04	0.0250	7.50		93.9	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike (2429088-MS1) Source: E407146-25 Prepared: 07/18/24 Analyzed: 07/19/24

Benzene	2.52	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.42	0.0250	2.50	ND	96.8	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.65	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2429088-MSD1) Source: E407146-25 Prepared: 07/18/24 Analyzed: 07/19/24

Benzene	2.35	0.0250	2.50	ND	94.1	48-131	6.70	23	
Ethylbenzene	2.39	0.0250	2.50	ND	95.5	45-135	7.25	27	
Toluene	2.24	0.0250	2.50	ND	89.4	48-130	7.99	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	6.06	27	
p,m-Xylene	4.79	0.0500	5.00	ND	95.7	43-135	6.43	27	
Total Xylenes	7.19	0.0250	7.50	ND	95.8	43-135	6.31	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:36:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429088-BLK1) Prepared: 07/18/24 Analyzed: 07/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

LCS (2429088-BS2) Prepared: 07/18/24 Analyzed: 07/19/24

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.9	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			

Matrix Spike (2429088-MS2) Source: E407146-25 Prepared: 07/18/24 Analyzed: 07/19/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.5	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2429088-MSD2) Source: E407146-25 Prepared: 07/18/24 Analyzed: 07/19/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	0.336	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:36:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2429087-BLK1) Prepared: 07/18/24 Analyzed: 07/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2429087-BS1) Prepared: 07/18/24 Analyzed: 07/20/24

Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike (2429087-MS1) Source: E407146-30 Prepared: 07/18/24 Analyzed: 07/20/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	59.7		50.0		119	50-200			

Matrix Spike Dup (2429087-MSD1) Source: E407146-30 Prepared: 07/18/24 Analyzed: 07/20/24

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	1.48	20	
Surrogate: n-Nonane	58.1		50.0		116	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	7/24/2024 7:36:56AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2429095-BLK1)					Prepared: 07/18/24 Analyzed: 07/19/24				
Chloride	ND	20.0							
LCS (2429095-BS1)					Prepared: 07/18/24 Analyzed: 07/19/24				
Chloride	248	20.0	250		99.0	90-110			
Matrix Spike (2429095-MS1)					Source: E407146-26		Prepared: 07/18/24 Analyzed: 07/19/24		
Chloride	474	20.0	250	251	89.1	80-120			
Matrix Spike Dup (2429095-MSD1)					Source: E407146-26		Prepared: 07/18/24 Analyzed: 07/19/24		
Chloride	513	20.0	250	251	105	80-120	7.90	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:	East Pecos 22-3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	07/24/24 07:36

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E40714A	01058-0007				x	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:18	7/16/2024	S	1	SS07 - 4'		1						X					
12:05	7/16/2024	S	1	SS07 - 8'		2						X					
10:20	7/16/2024	S	1	PH01 - 0'		3						X					
10:30	7/16/2024	S	1	PH01 - 4'		4						X					
11:58	7/16/2024	S	1	PH01 - 8'		5						X					
9:50	7/16/2024	S	1	PH02 - 0'		6						X					
10:05	7/16/2024	S	1	PH02 - 4'		7						X					
13:18	7/16/2024	S	1	PH02 - 8'		8						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																	
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: Cole Burton																	
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: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Bowen Simmons		7/17/24	10:15	Michelle Gonzales		7-17-24	1015										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Michelle Gonzales		7-17-24	2805			7/18/24	0900										
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 7/18/2024 10:24:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	07/18/24 09:00	Work Order ID:	E407149
Phone:	(505) 382-1211	Date Logged In:	07/17/24 16:48	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	07/24/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

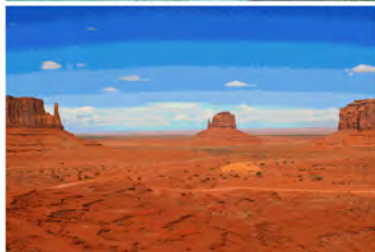
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408153

Job Number: 01058-0007

Received: 8/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/23/24

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: 8/23/24



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: East Pecos Federal 22-3H
Workorder: E408153
Date Received: 8/19/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/19/2024 8:30:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/23/24 06:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 9'	E408153-01A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS02 - 9'	E408153-02A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS03 - 9'	E408153-03A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS05 - 9'	E408153-04A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS06 - 9'	E408153-05A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS07 - 9'	E408153-06A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS08 - 9'	E408153-07A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS09 - 9'	E408153-08A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
FS16 - 9'	E408153-09A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/23/2024 6:57:12AM
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FS01 - 9'

E408153-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2434008	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2434008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		87.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434004	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		92.3 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434006	
Chloride	47.7	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/23/2024 6:57:12AM
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FS02 - 9'

E408153-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		98.9 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	62.2	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 8/23/2024 6:57:12AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS03 - 9'

E408153-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434008	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		108 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434004	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		98.2 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2434006	
Chloride	119	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/23/2024 6:57:12AM

FS05 - 9'

E408153-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		98.0 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	42.7	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/23/2024 6:57:12AM

FS06 - 9'

E408153-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		114 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		99.6 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	182	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/23/2024 6:57:12AM
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FS07 - 9'

E408153-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		100 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	75.5	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/23/2024 6:57:12AM
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FS08 - 9'

E408153-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		101 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	83.5	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 8/23/2024 6:57:12AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

FS09 - 9'

E408153-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	08/19/24	08/19/24	
Surrogate: Toluene-d8		110 %	70-130	08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		103 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: JM		Batch: 2434006
Chloride	96.0	20.0	1	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/23/2024 6:57:12AM

FS16 - 9'

E408153-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Benzene	ND	0.0250	1	08/19/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/20/24	
Toluene	ND	0.0250	1	08/19/24	08/20/24	
o-Xylene	ND	0.0250	1	08/19/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/20/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/19/24	08/20/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2434008
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/20/24	
Surrogate: Bromofluorobenzene		112 %	70-130	08/19/24	08/20/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130	08/19/24	08/20/24	
Surrogate: Toluene-d8		109 %	70-130	08/19/24	08/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434004
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/20/24	
Surrogate: n-Nonane		100 %	50-200	08/19/24	08/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2434006
Chloride	263	20.0	1	08/19/24	08/19/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/23/2024 6:57:12AM

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 (2434008-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

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: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.2	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

LCS (2434008-BS1) Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.31	0.0250	2.50		92.2	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.6	70-130			
Toluene	2.53	0.0250	2.50		101	70-130			
o-Xylene	2.76	0.0250	2.50		110	70-130			
p,m-Xylene	5.49	0.0500	5.00		110	70-130			
Total Xylenes	8.25	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike (2434008-MS1) Source: E408156-03 Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.22	0.0250	2.50	ND	88.9	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.7	45-135			
Toluene	2.45	0.0250	2.50	ND	98.0	48-130			
o-Xylene	2.71	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.06	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.593		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike Dup (2434008-MSD1) Source: E408156-03 Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.28	0.0250	2.50	ND	91.1	48-131	2.47	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.6	45-135	2.94	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	2.68	24	
o-Xylene	2.69	0.0250	2.50	ND	107	43-135	0.723	27	
p,m-Xylene	5.37	0.0500	5.00	ND	107	43-135	0.317	27	
Total Xylenes	8.05	0.0250	7.50	ND	107	43-135	0.0310	27	
Surrogate: Bromofluorobenzene	0.561		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/23/2024 6:57:12AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434008-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.2	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

LCS (2434008-BS2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2434008-MS2) Source: E408156-03 Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	0.564		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.5	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

Matrix Spike Dup (2434008-MSD2) Source: E408156-03 Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.427	20	
Surrogate: Bromofluorobenzene	0.582		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/23/2024 6:57:12AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434004-BLK1)	Prepared: 08/19/24 Analyzed: 08/20/24								
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2434004-BS1)	Prepared: 08/19/24 Analyzed: 08/20/24								
Diesel Range Organics (C10-C28)	186	25.0	250		74.5	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2434004-MS1)				Source: E408152-04	Prepared: 08/19/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike Dup (2434004-MSD1)				Source: E408152-04	Prepared: 08/19/24 Analyzed: 08/20/24				
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.3	38-132	0.795	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/23/2024 6:57:12AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2434006-BLK1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	ND	20.0							
LCS (2434006-BS1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434006-MS1)					Source: E408154-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2434006-MSD1)					Source: E408154-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	254	20.0	250	ND	102	80-120	0.587	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:	East Pecos Federal 22-3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/23/24 06:57

- 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 Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon				Company: Devon				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: <u>East Pecos Federal 22-3H</u>				Address: 5315 Buena Vista Dr				E 408153		01058-0007					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: (575)689-7597															
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com															
Phone: 575-988-0055				Miscellaneous: Jim Raley															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
10:04	8/15/2024	Sd	1	FS01 - 9'			1						X						
11:24	8/15/2024	Sd	1	FS02 - 9'			2						X						
11:20	8/15/2024	Sd	1	FS03 - 9'			3						X						
11:15	8/15/2024	Sd	1	FS05 - 9'			4						X						
10:28	8/15/2024	Sd	1	FS06 - 9'			5						X						
10:07	8/15/2024	Sd	1	FS07 - 9'			6						X						
10:10	8/15/2024	Sd	1	FS08 - 9'			7						X						
10:22	8/15/2024	Sd	1	FS09 - 9'			8						X						
10:18	8/15/2024	Sd	1	FS16 - 9'			9						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																			
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: Cole Burton																			
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: <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									
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



Chain of Custody

WO# 21153617

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon				Company: Devon		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project:				Address: 5315 Buena Vista Dr		E 408153		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								X					
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:04	8/15/2024	Sd	1	FS01 - 9'		1						X					
11:24	8/15/2024	Sd	1	FS02 - 9'		2						X					
11:20	8/15/2024	Sd	1	FS03 - 9'		3						X					
11:15	8/15/2024	Sd	1	FS05 - 9'		4						X					
10:28	8/15/2024	Sd	1	FS06 - 9'		5						X					
10:07	8/15/2024	Sd	1	FS07 - 9'		6						X					
10:10	8/15/2024	Sd	1	FS08 - 9'		7						X					
10:22	8/15/2024	Sd	1	FS09 - 9'		8						X					
10:18	8/15/2024	Sd	1	FS16 - 9'		9						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dv.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																	
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: Cole Burton																	
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: <input checked="" type="radio"/> Y / <input type="radio"/> 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										
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 8/19/2024 12:46:50PM

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:	08/19/24 08:30	Work Order ID:	E408153
Phone:	(505) 382-1211	Date Logged In:	08/16/24 16:06	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/23/24 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project name is missing on COC by client.
Per A. Giovengo project name is East
Pecos Federal 22-3H.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408155

Job Number: 01058-0007

Received: 8/19/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/26/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos Federal 22-3H
Workorder: E408155
Date Received: 8/19/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/19/2024 8:30:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/26/24 12:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW - 0-9'	E408155-01A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
SW19 - 0-9'	E408155-02A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.
SW20 - 0-9'	E408155-03A	Soil	08/15/24	08/19/24	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 12:56:53PM
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SW - 0-9'

E408155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	104 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	104 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434003	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane	100 %	50-200		08/19/24	08/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434006	
Chloride	3110	40.0	2	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
8/26/2024 12:56:53PM

SW19 - 0-9'

E408155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	104 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	96.1 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	104 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434003	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane	93.7 %	50-200		08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2434006	
Chloride	2070	40.0	2	08/19/24	08/19/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 12:56:53PM
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SW20 - 0-9'
E408155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Benzene	ND	0.0250	1	08/19/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/19/24	08/19/24	
Toluene	ND	0.0250	1	08/19/24	08/19/24	
o-Xylene	ND	0.0250	1	08/19/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/19/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	103 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2434010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/19/24	08/19/24	
Surrogate: Bromofluorobenzene	95.4 %	70-130		08/19/24	08/19/24	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		08/19/24	08/19/24	
Surrogate: Toluene-d8	103 %	70-130		08/19/24	08/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2434003	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/19/24	08/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/19/24	08/19/24	
Surrogate: n-Nonane	98.3 %	50-200		08/19/24	08/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2434006	
Chloride	4600	100	5	08/19/24	08/19/24	

QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 12:56:53PM

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 (2434010-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

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: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2434010-BS1) Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.17	0.0250	2.50		86.7	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.4	70-130			
Toluene	2.28	0.0250	2.50		91.1	70-130			
o-Xylene	2.12	0.0250	2.50		85.0	70-130			
p,m-Xylene	4.23	0.0500	5.00		84.7	70-130			
Total Xylenes	6.36	0.0250	7.50		84.8	70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2434010-MS1) Source: E408155-02 Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.21	0.0250	2.50	ND	88.2	48-131			
Ethylbenzene	2.26	0.0250	2.50	ND	90.3	45-135			
Toluene	2.27	0.0250	2.50	ND	90.9	48-130			
o-Xylene	2.14	0.0250	2.50	ND	85.5	43-135			
p,m-Xylene	4.26	0.0500	5.00	ND	85.1	43-135			
Total Xylenes	6.39	0.0250	7.50	ND	85.3	43-135			
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike Dup (2434010-MSD1) Source: E408155-02 Prepared: 08/19/24 Analyzed: 08/19/24

Benzene	2.27	0.0250	2.50	ND	90.8	48-131	2.95	23	
Ethylbenzene	2.34	0.0250	2.50	ND	93.8	45-135	3.80	27	
Toluene	2.38	0.0250	2.50	ND	95.0	48-130	4.48	24	
o-Xylene	2.28	0.0250	2.50	ND	91.3	43-135	6.54	27	
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135	7.29	27	
Total Xylenes	6.86	0.0250	7.50	ND	91.5	43-135	7.04	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 12:56:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434010-BLK1) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2434010-BS2) Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		91.9	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			

Matrix Spike (2434010-MS2) Source: E408155-02 Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike Dup (2434010-MSD2) Source: E408155-02 Prepared: 08/19/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130	0.180	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 12:56:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434003-BLK1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS (2434003-BS1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Diesel Range Organics (C10-C28)	195	25.0	250		78.1	38-132			
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

Matrix Spike (2434003-MS1)					Source: E408151-01		Prepared: 08/19/24 Analyzed: 08/19/24		
Diesel Range Organics (C10-C28)	187	25.0	250	ND	74.7	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike Dup (2434003-MSD1)					Source: E408151-01		Prepared: 08/19/24 Analyzed: 08/19/24		
Diesel Range Organics (C10-C28)	194	25.0	250	ND	77.7	38-132	4.01	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 12:56:53PM

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 (2434006-BLK1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	ND	20.0							
LCS (2434006-BS1)					Prepared: 08/19/24 Analyzed: 08/19/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2434006-MS1)					Source: E408154-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2434006-MSD1)					Source: E408154-04		Prepared: 08/19/24 Analyzed: 08/19/24		
Chloride	254	20.0	250	ND	102	80-120	0.587	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:	East Pecos Federal 22-3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/26/24 12:56

- 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.



envirotech

Envirotech Analytical Laboratory

Printed: 8/19/2024 12:52:19PM

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:	08/19/24 08:30	Work Order ID:	E408155
Phone:	(505) 382-1211	Date Logged In:	08/16/24 16:19	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/23/24 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Project name is missing on COC by client.
Per A. Giovengo project name is East
Pecos Federal 22-3H.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

envirotech

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408170

Job Number: 01058-0007

Received: 8/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/26/24

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: East Pecos Federal 22-3H
Workorder: E408170
Date Received: 8/20/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/20/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/26/24 13:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS15 - 9'	E408170-01A	Solid	08/16/24	08/20/24	Glass Jar, 4 oz.
FS17 - 9'	E408170-02A	Solid	08/16/24	08/20/24	Glass Jar, 4 oz.
FS18 - 9'	E408170-03A	Solid	08/16/24	08/20/24	Glass Jar, 4 oz.
FS19 - 9'	E408170-04A	Solid	08/16/24	08/20/24	Glass Jar, 4 oz.
SW17 - 0-9'	E408170-05A	Soil	08/16/24	08/20/24	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 1:04:41PM
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FS15 - 9'

E408170-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	87.4 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane	98.9 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434019	
Chloride	86.3	20.0	1	08/20/24	08/20/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 1:04:41PM
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FS17 - 9'

E408170-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	87.4 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane	107 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434019	
Chloride	ND	20.0	1	08/20/24	08/20/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 1:04:41PM
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FS18 - 9'

E408170-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	88.5 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.5 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane	109 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434019	
Chloride	59.5	20.0	1	08/20/24	08/20/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 1:04:41PM
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FS19 - 9'

E408170-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane	103 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434019	
Chloride	77.1	20.0	1	08/20/24	08/20/24	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/26/2024 1:04:41PM
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SW17 - 0-9'
E408170-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Benzene	ND	0.0250	1	08/20/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/20/24	08/21/24	
Toluene	ND	0.0250	1	08/20/24	08/21/24	
o-Xylene	ND	0.0250	1	08/20/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/20/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/20/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/20/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		08/20/24	08/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434026	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/20/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/20/24	08/22/24	
Surrogate: n-Nonane	120 %	50-200		08/20/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434019	
Chloride	2310	40.0	2	08/20/24	08/20/24	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 1:04:41PM

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
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Blank (2434036-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

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	6.99		8.00		87.4	70-130			

LCS (2434036-BS1) Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.1	70-130			
Toluene	4.88	0.0250	5.00		97.5	70-130			
o-Xylene	4.73	0.0250	5.00		94.6	70-130			
p,m-Xylene	9.63	0.0500	10.0		96.3	70-130			
Total Xylenes	14.4	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.1	70-130			

Matrix Spike (2434036-MS1) Source: E408165-03 Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.1	61-133			
Toluene	4.98	0.0250	5.00	ND	99.6	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.4	63-131			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			

Matrix Spike Dup (2434036-MSD1) Source: E408165-03 Prepared: 08/20/24 Analyzed: 08/21/24

Benzene	4.90	0.0250	5.00	ND	98.0	54-133	3.61	20	
Ethylbenzene	4.70	0.0250	5.00	ND	94.1	61-133	3.12	20	
Toluene	4.81	0.0250	5.00	ND	96.2	61-130	3.52	20	
o-Xylene	4.68	0.0250	5.00	ND	93.5	63-131	3.01	20	
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131	2.72	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131	2.81	20	
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 1:04:41PM

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
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Blank (2434036-BLK1) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			

LCS (2434036-BS2) Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	41.4	20.0	50.0		82.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			

Matrix Spike (2434036-MS2) Source: E408165-03 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	ND	80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike Dup (2434036-MSD2) Source: E408165-03 Prepared: 08/20/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.5	70-130	7.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 1:04:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434026-BLK1)					Prepared: 08/20/24 Analyzed: 08/21/24				
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 (2434026-BS1)					Prepared: 08/20/24 Analyzed: 08/21/24				
Diesel Range Organics (C10-C28)	196	25.0	250		78.4	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2434026-MS1)					Source: E408164-01		Prepared: 08/20/24 Analyzed: 08/21/24		
Diesel Range Organics (C10-C28)	203	25.0	250	ND	81.1	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike Dup (2434026-MSD1)					Source: E408164-01		Prepared: 08/20/24 Analyzed: 08/21/24		
Diesel Range Organics (C10-C28)	202	25.0	250	ND	80.7	38-132	0.563	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	8/26/2024 1:04:41PM

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 (2434019-BLK1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Chloride	ND	20.0							
LCS (2434019-BS1)					Prepared: 08/19/24 Analyzed: 08/20/24				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2434019-MS1)					Source: E408159-03		Prepared: 08/19/24 Analyzed: 08/20/24		
Chloride	4250	40.0	250	3320	371	80-120			M4
Matrix Spike Dup (2434019-MSD1)					Source: E408159-03		Prepared: 08/19/24 Analyzed: 08/20/24		
Chloride	3580	40.0	250	3320	103	80-120	17.1	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:	East Pecos Federal 22-3H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	08/26/24 13:04

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 8/20/2024 10:01:33AM

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:	Devon Energy - Carlsbad	Date Received:	08/20/24 05:00	Work Order ID:	E408170
Phone:	(505) 382-1211	Date Logged In:	08/19/24 17:29	Logged In By:	Noe Soto
Email:	ashley.giovengo@wescominc.com	Due Date:	08/26/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408177

Job Number: 01058-0007

Received: 8/21/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/27/24

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E408177
Date Received: 8/21/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/21/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/27/24 09:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04B-0'	E408177-01A	Soil	08/19/24	08/21/24	Glass Jar, 2 oz.
SS04C-0'	E408177-02A	Soil	08/19/24	08/21/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/27/2024 9:56:41AM
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SS04B-0'

E408177-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/23/24	
Toluene	ND	0.0250	1	08/21/24	08/23/24	
o-Xylene	ND	0.0250	1	08/21/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.2 %	70-130		08/21/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	86.1 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	793	200	10	08/21/24	08/21/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 8/27/2024 9:56:41AM
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SS04C-0'

E408177-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Benzene	ND	0.0250	1	08/21/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/21/24	08/22/24	
Toluene	ND	0.0250	1	08/21/24	08/22/24	
o-Xylene	ND	0.0250	1	08/21/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/21/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/21/24	08/22/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2434044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/24	08/22/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		08/21/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434048	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/24	08/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/24	08/22/24	
Surrogate: n-Nonane	82.7 %	50-200		08/21/24	08/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2434045	
Chloride	ND	100	5	08/21/24	08/21/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 9:56:41AM

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
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Blank (2434044-BLK1)Prepared: 08/21/24 Analyzed: 08/21/24

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	7.10		8.00		88.7	70-130			

LCS (2434044-BS1)Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.64	0.0250	5.00		92.7	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.58	0.0250	5.00		91.7	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	9.15	0.0500	10.0		91.5	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.8	70-130			

Matrix Spike (2434044-MS1)Source: E408176-02Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.71	0.0250	5.00	ND	94.3	54-133			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	61-133			
Toluene	4.65	0.0250	5.00	ND	92.9	61-130			
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			

Matrix Spike Dup (2434044-MSD1)Source: E408176-02Prepared: 08/21/24 Analyzed: 08/21/24

Benzene	4.95	0.0250	5.00	ND	99.0	54-133	4.92	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	4.83	20	
Toluene	4.88	0.0250	5.00	ND	97.6	61-130	4.92	20	
o-Xylene	4.75	0.0250	5.00	ND	95.0	63-131	4.57	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	4.81	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	4.73	20	
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 9:56:41AM

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
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Blank (2434044-BLK1) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

LCS (2434044-BS2) Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0		80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike (2434044-MS2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

Matrix Spike Dup (2434044-MSD2) Source: E408176-02 Prepared: 08/21/24 Analyzed: 08/21/24

Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.6	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 9:56:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434048-BLK1) Prepared: 08/21/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			

LCS (2434048-BS1) Prepared: 08/21/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	222	25.0	250		88.8	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			

Matrix Spike (2434048-MS1) Source: E408175-21 Prepared: 08/21/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	1070	25.0	250	799	109	38-132			
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

Matrix Spike Dup (2434048-MSD1) Source: E408175-21 Prepared: 08/21/24 Analyzed: 08/22/24

Diesel Range Organics (C10-C28)	1020	25.0	250	799	86.6	38-132	5.47	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/27/2024 9:56:41AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434045-BLK1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	ND	20.0							
LCS (2434045-BS1)					Prepared: 08/21/24 Analyzed: 08/21/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2434045-MS1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	384	200	250	ND	154	80-120			M5
Matrix Spike Dup (2434045-MSD1)					Source: E408176-01		Prepared: 08/21/24 Analyzed: 08/21/24		
Chloride	404	200	250	ND	161	80-120	4.86	20	M5

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/27/24 09:56

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr				E 408177		04108-0639					X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: (575)689-7597																			
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com																			
Phone: 575-988-0055				Miscellaneous: Jim Raley																			
Email: agiovengo@ensolum.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
9:52	8/19/2024	S	1	SS04B - 0'		1						X											
10:07	8/19/2024	S	1	SS04C - 0'		2						X											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																							
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: Cole Burton																							
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																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Envirotech Analytical Laboratory

Printed: 8/21/2024 9:29:01AM

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:	08/21/24 05:00	Work Order ID:	E408177
Phone:	(539) 573-4018	Date Logged In:	08/20/24 16:07	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wesominc.com	Due Date:	08/27/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408188

Job Number: 04108-0639

Received: 8/22/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/28/24

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: 8/28/24

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E408188
Date Received: 8/22/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2024 5:30:00AM, under the Project Name: East Pecos Federal 22-3H.

The analytical test results summarized in this report with the Project Name: East Pecos Federal 22-3H 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.

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

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

Respectfully,

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

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Laboratory Administrator
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Client Representative
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Cell: 505-947-8222
mgonzaless@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 08/28/24 08:09
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04 - 9'	E408188-01A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS11 - 9'	E408188-02A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS12 - 9'	E408188-03A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS13 - 9'	E408188-04A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS14 - 9'	E408188-05A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS20 - 9'	E408188-06A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS21 - 9'	E408188-07A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS22 - 9'	E408188-08A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.
FS10 - 9'	E408188-09A	Solid	08/20/24	08/22/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS04 - 9'

E408188-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434062	
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		101 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2434070	
Chloride	85.3	20.0	1	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS11 - 9'

E408188-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		96.7 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	113	20.0	1	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 8/28/2024 8:09:00AM
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS12 - 9'

E408188-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2434062	
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.3 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2434062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		105 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		98.3 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		93.3 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2434070	
Chloride	95.7	20.0	1	08/22/24	08/22/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
8/28/2024 8:09:00AM

FS13 - 9'

E408188-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.3 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		93.9 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	43.3	20.0	1	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS14 - 9'

E408188-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	25.6	25.0	1	08/22/24	08/23/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		97.8 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	131	20.0	1	08/22/24	08/22/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 04108-0639
Project Manager: Ashley Giovengo

Reported:
8/28/2024 8:09:00AM

FS20 - 9'

E408188-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		96.7 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	29.2	20.0	1	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS21 - 9'

E408188-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		99.1 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		99.1 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		104 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	93.8	20.0	1	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS22 - 9'

E408188-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	35.9	25.0	1	08/22/24	08/23/24	T17
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		95.8 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	ND	200	10	08/22/24	08/22/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 8:09:00AM
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FS10 - 9'

E408188-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Benzene	ND	0.0250	1	08/22/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/23/24	
Toluene	ND	0.0250	1	08/22/24	08/23/24	
o-Xylene	ND	0.0250	1	08/22/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		96.8 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2434062
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/23/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/23/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/22/24	08/23/24	
Surrogate: Toluene-d8		96.8 %	70-130	08/22/24	08/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2434064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		82.6 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2434070
Chloride	64.4	20.0	1	08/22/24	08/22/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 8:09:00AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2434062-BLK1)Prepared: 08/22/24 Analyzed: 08/22/24

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	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS1)Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.11	0.0250	2.50		84.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.7	70-130			
Toluene	2.12	0.0250	2.50		84.8	70-130			
o-Xylene	2.33	0.0250	2.50		93.3	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.5	70-130			
Total Xylenes	7.01	0.0250	7.50		93.5	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2434062-MS1)Source: E408189-01Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike Dup (2434062-MSD1)Source: E408189-01Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.52	0.0250	2.50	ND	101	48-131	0.199	23	
Ethylbenzene	2.51	0.0250	2.50	ND	101	45-135	0.558	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	0.106	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	1.97	27	
p,m-Xylene	5.02	0.0500	5.00	ND	100	43-135	1.52	27	
Total Xylenes	7.54	0.0250	7.50	ND	100	43-135	1.67	27	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 8:09:00AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2434062-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS2) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2434062-MS2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2434062-MSD2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.233	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 8:09:00AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434064-BLK1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

LCS (2434064-BS1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	206	25.0	250		82.2	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2434064-MS1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

Matrix Spike Dup (2434064-MSD1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	17.3	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 8:09:00AM

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 (2434070-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	ND	20.0							
LCS (2434070-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2434070-MS1)					Source: E408188-08		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	296	200	250	ND	118	80-120			
Matrix Spike Dup (2434070-MSD1)					Source: E408188-08		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	341	200	250	ND	137	80-120	14.2	20	M5

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 08:09

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- 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 Information				Invoice Information		Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E408188	04108-0639				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:00	8/20/2024	Sd	1	FS04 - 9'		1						X					
10:03	8/20/2024	Sd	1	FS11 - 9'		2						X					
10:10	8/20/2024	Sd	1	FS12 - 9'		3						X					
10:07	8/20/2024	Sd	1	FS13 - 9'		4						X					
9:55	8/20/2024	Sd	1	FS14 - 9'		5						X					
9:52	8/20/2024	Sd	1	FS20 - 9'		6						X					
14:41	8/20/2024	Sd	1	FS21 - 9'		7						X					
14:45	8/20/2024	Sd	1	FS22 - 9'		8						X					
14:39	8/20/2024	Sd	1	FS10 - 9'		9						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																	
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: Cole Burton																	
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									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 8/28/2024 7:59:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/22/24 05:30	Work Order ID:	E408188
Phone:	(539) 573-4018	Date Logged In:	08/22/24 07:45	Logged In By:	Keyliegh Hall
Email:	ashley.giovengo@wesominc.com	Due Date:	08/28/24 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: N/A

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408189

Job Number: 04108-0639

Received: 8/22/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/28/24

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: 8/28/24



Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos Federal 22-3H
Workorder: E408189
Date Received: 8/22/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/22/2024 5:30:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 07:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BF01	E408189-01A	Soil	08/20/24	08/22/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 04108-0639 Project Manager: Ashley Giovengo	Reported: 8/28/2024 7:48:08AM
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BF01
E408189-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2434062	
Benzene	ND	0.0250	1	08/22/24	08/22/24	
Ethylbenzene	ND	0.0250	1	08/22/24	08/22/24	
Toluene	ND	0.0250	1	08/22/24	08/22/24	
o-Xylene	ND	0.0250	1	08/22/24	08/22/24	
p,m-Xylene	ND	0.0500	1	08/22/24	08/22/24	
Total Xylenes	ND	0.0250	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2434062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/22/24	08/22/24	
Surrogate: Bromofluorobenzene		104 %	70-130	08/22/24	08/22/24	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	08/22/24	08/22/24	
Surrogate: Toluene-d8		97.4 %	70-130	08/22/24	08/22/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2434064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/22/24	08/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/22/24	08/23/24	
Surrogate: n-Nonane		102 %	50-200	08/22/24	08/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2434063	
Chloride	ND	200	10	08/22/24	08/22/24	

QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 7:48:08AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2434062-BLK1)Prepared: 08/22/24 Analyzed: 08/22/24

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	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS1)Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.11	0.0250	2.50		84.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.7	70-130			
Toluene	2.12	0.0250	2.50		84.8	70-130			
o-Xylene	2.33	0.0250	2.50		93.3	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.5	70-130			
Total Xylenes	7.01	0.0250	7.50		93.5	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2434062-MS1)Source: E408189-01Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.50	0.0250	2.50	ND	100	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135			
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike Dup (2434062-MSD1)Source: E408189-01Prepared: 08/22/24 Analyzed: 08/22/24

Benzene	2.52	0.0250	2.50	ND	101	48-131	0.199	23	
Ethylbenzene	2.51	0.0250	2.50	ND	101	45-135	0.558	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	0.106	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	1.97	27	
p,m-Xylene	5.02	0.0500	5.00	ND	100	43-135	1.52	27	
Total Xylenes	7.54	0.0250	7.50	ND	100	43-135	1.67	27	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 7:48:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434062-BLK1) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2434062-BS2) Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2434062-MS2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2434062-MSD2) Source: E408189-01 Prepared: 08/22/24 Analyzed: 08/22/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.233	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 7:48:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434064-BLK1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			

LCS (2434064-BS1) Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	206	25.0	250		82.2	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike (2434064-MS1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.7	38-132			
Surrogate: n-Nonane	45.5		50.0		91.0	50-200			

Matrix Spike Dup (2434064-MSD1) Source: E408185-08 Prepared: 08/22/24 Analyzed: 08/23/24

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	17.3	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	8/28/2024 7:48:08AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2434063-BLK1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	ND	20.0							
LCS (2434063-BS1)					Prepared: 08/22/24 Analyzed: 08/22/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2434063-MS1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	341	20.0	250	79.8	105	80-120			
Matrix Spike Dup (2434063-MSD1)					Source: E408184-04		Prepared: 08/22/24 Analyzed: 08/22/24		
Chloride	339	20.0	250	79.8	104	80-120	0.678	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	08/28/24 07:48

- 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 Information					
Client: WPX Energy Permian, LLC Project: East Pecos Federal 22-3H Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com					

Invoice Information		
Company: WPX Energy Permian, LLC Address: 5315 Buena Vista Dr City, State, Zip: Carlsbad NM, 88220 Phone: (575)689-7597 Email: jim.raley@dvn.com Miscellaneous: Jim Raley		

Lab Use Only		TAT				State			
Lab WO# E408189	Job Number 04108-0639	1D	2D	3D	Std	NM	CO	UT	TX
					x	x			

Analysis and Method														EPA Program			
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals							SDWA	CWA	RCRA	
					X									Compliance	Y	or N	
														PWSID #			
														Remarks			

Sample Information										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number				
11:05	8/20/2024	S	1	BF01		/				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com

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: Cole Burton

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 <u>4</u>
[Signature]	8/21/24	7:30	[Signature]	8-21-24	0730	
[Signature]	8-21-24	1545	[Signature]	8-21-24	1745	
[Signature]	8-21-24	2345	[Signature]	8-21-24	0530	

Sample Matrix:	Container Type:
S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 8/22/2024 12:54:43PM

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:	08/22/24 05:30	Work Order ID:	E408189
Phone:	(539) 573-4018	Date Logged In:	08/22/24 07:57	Logged In By:	Keyliegh Hall
Email:	ashley.giovengo@wesominc.com	Due Date:	08/28/24 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? 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: N/A

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408258

Job Number: 01058-0007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/3/24

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: 9/3/24

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E408258
Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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

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Laboratory Administrator
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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 09/03/24 14:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW02 - 0-9'	E408258-01A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.
SW03 - 0-9'	E408258-02A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.
SW04 - 0-9'	E408258-03A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.
SW05 - 0-9'	E408258-04A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.
SW06 - 0-9'	E408258-05A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.
SW07 - 0-9'	E408258-06A	Solid	08/28/24	08/30/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/3/2024 2:57:51PM
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SW02 - 0-9'
E408258-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		96.5 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		96.5 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/30/24	
Surrogate: n-Nonane		71.9 %	50-200	08/30/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	35.2	20.0	1	08/30/24	08/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/3/2024 2:57:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW03 - 0-9'
E408258-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/30/24	08/30/24	
Surrogate: Toluene-d8	95.1 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/30/24	08/30/24	
Surrogate: Toluene-d8	95.1 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/30/24	
Surrogate: n-Nonane	72.0 %	50-200		08/30/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	311	20.0	1	08/30/24	08/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/3/2024 2:57:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW04 - 0-9'
E408258-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/30/24	08/30/24	
Surrogate: Toluene-d8	95.2 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/30/24	08/30/24	
Surrogate: Toluene-d8	95.2 %	70-130		08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/30/24	
Surrogate: n-Nonane	75.2 %	50-200		08/30/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	374	20.0	1	08/30/24	08/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/3/2024 2:57:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW05 - 0-9'
E408258-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.8 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.8 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/30/24	
Surrogate: n-Nonane		73.5 %	50-200	08/30/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	140	20.0	1	08/30/24	08/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/3/2024 2:57:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW06 - 0-9'
E408258-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.5 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.5 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/30/24	
Surrogate: n-Nonane		71.3 %	50-200	08/30/24	08/30/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	276	20.0	1	08/30/24	08/30/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/3/2024 2:57:51PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW07 - 0-9'
E408258-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Benzene	ND	0.0250	1	08/30/24	08/30/24	
Ethylbenzene	ND	0.0250	1	08/30/24	08/30/24	
Toluene	ND	0.0250	1	08/30/24	08/30/24	
o-Xylene	ND	0.0250	1	08/30/24	08/30/24	
p,m-Xylene	ND	0.0500	1	08/30/24	08/30/24	
Total Xylenes	ND	0.0250	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.9 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2435112
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	08/30/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/30/24	08/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/30/24	08/30/24	
Surrogate: Toluene-d8		95.9 %	70-130	08/30/24	08/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435111
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	08/31/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	08/31/24	
Surrogate: n-Nonane		68.8 %	50-200	08/30/24	08/31/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2435122
Chloride	488	20.0	1	08/30/24	08/30/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/3/2024 2:57:51PM

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 (2435112-BLK1) Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

LCS (2435112-BS1) Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	2.26	0.0250	2.50		90.5	70-130			
Ethylbenzene	2.34	0.0250	2.50		93.5	70-130			
Toluene	2.19	0.0250	2.50		87.7	70-130			
o-Xylene	2.34	0.0250	2.50		93.8	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130			
Total Xylenes	7.03	0.0250	7.50		93.7	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			

Matrix Spike (2435112-MS1) Source: E408259-05 Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	2.12	0.0250	2.50	ND	84.8	48-131			
Ethylbenzene	2.15	0.0250	2.50	ND	85.9	45-135			
Toluene	2.02	0.0250	2.50	ND	80.7	48-130			
o-Xylene	2.12	0.0250	2.50	ND	84.8	43-135			
p,m-Xylene	4.24	0.0500	5.00	ND	84.7	43-135			
Total Xylenes	6.36	0.0250	7.50	ND	84.8	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			

Matrix Spike Dup (2435112-MSD1) Source: E408259-05 Prepared: 08/30/24 Analyzed: 08/30/24

Benzene	2.17	0.0250	2.50	ND	86.9	48-131	2.42	23	
Ethylbenzene	2.21	0.0250	2.50	ND	88.6	45-135	3.05	27	
Toluene	2.06	0.0250	2.50	ND	82.2	48-130	1.84	24	
o-Xylene	2.23	0.0250	2.50	ND	89.1	43-135	4.94	27	
p,m-Xylene	4.44	0.0500	5.00	ND	88.9	43-135	4.77	27	
Total Xylenes	6.67	0.0250	7.50	ND	88.9	43-135	4.83	27	
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/3/2024 2:57:51PM

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
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Blank (2435112-BLK1) Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

LCS (2435112-BS2) Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.1	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			

Matrix Spike (2435112-MS2) Source: E408259-05 Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.1	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2435112-MSD2) Source: E408259-05 Prepared: 08/30/24 Analyzed: 08/30/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.7	70-130	0.426	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/3/2024 2:57:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435111-BLK1) Prepared: 08/30/24 Analyzed: 08/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	34.7		50.0		69.5	50-200			

LCS (2435111-BS1) Prepared: 08/30/24 Analyzed: 08/30/24

Diesel Range Organics (C10-C28)	190	25.0	250		76.0	38-132			
Surrogate: n-Nonane	35.0		50.0		69.9	50-200			

Matrix Spike (2435111-MS1) Source: E408258-04 Prepared: 08/30/24 Analyzed: 08/30/24

Diesel Range Organics (C10-C28)	187	25.0	250	ND	74.6	38-132			
Surrogate: n-Nonane	35.7		50.0		71.4	50-200			

Matrix Spike Dup (2435111-MSD1) Source: E408258-04 Prepared: 08/30/24 Analyzed: 08/30/24

Diesel Range Organics (C10-C28)	192	25.0	250	ND	76.9	38-132	2.96	20	
Surrogate: n-Nonane	37.4		50.0		74.9	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/3/2024 2:57:51PM

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 (2435122-BLK1)					Prepared: 08/30/24 Analyzed: 08/30/24				
Chloride	ND	20.0							
LCS (2435122-BS1)					Prepared: 08/30/24 Analyzed: 08/30/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2435122-MS1)					Source: E408258-03		Prepared: 08/30/24 Analyzed: 08/30/24		
Chloride	588	20.0	250	374	85.3	80-120			
Matrix Spike Dup (2435122-MSD1)					Source: E408258-03		Prepared: 08/30/24 Analyzed: 08/30/24		
Chloride	552	20.0	250	374	70.9	80-120	6.31	20	M2

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

Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/03/24 14:57

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Client Information				Invoice Information				Lab Use Only						TAT				State											
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX										
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr				E4082S8		D16SR-0007			X			x													
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																									
Address: 3122 National Parks Hwy				Phone: (575)689-7597																									
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dvn.com																									
Phone: 575-988-0055				Miscellaneous: Jim Raley																									
Email: agiovengo@ensolum.com																													
										Analysis and Method								EPA Program											
										DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA									
																		Compliance	Y	or	N								
																	PWSID #												
Sample Information																				Remarks									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number																						
10:23	8/28/2024	Sd	1	SW02 - 0-9'			1							X															
10:28	8/28/2024	Sd	1	SW03 - 0-9'			2							X															
10:29	8/28/2024	Sd	1	SW04 - 0-9'			3							X															
10:32	8/28/2024	Sd	1	SW05 - 0-9'			4							X															
10:36	8/28/2024	Sd	1	SW06 - 0-9'			5							X															
10:38	8/28/2024	Sd	1	SW07 - 0-9'			6							X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dvn.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																													
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: Cole Burton																													
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																							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																								
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																								
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples 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: 8/30/2024 9:53:36AM

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:	WPX Energy - Carlsbad	Date Received:	08/30/24 05:00	Work Order ID:	E408258
Phone:	(539) 573-4018	Date Logged In:	08/29/24 16:04	Logged In By:	Noe Soto
Email:	ashley.giovengo@wesominc.com	Due Date:	09/03/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408269

Job Number: 01058-007

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/6/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/6/24

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E408269
Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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

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

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mgonzaless@envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/06/24 08:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW08-0-9'	E408269-01A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SW09-0-9'	E408269-02A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.
SW10-09'	E408269-03A	Soil	08/28/24	08/30/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-007 Project Manager: Ashley Giovengo	Reported: 9/6/2024 8:08:52AM
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SW08-0-9'
E408269-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435115	
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2435115	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	92.0 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	100 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2435117	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/02/24	
Surrogate: n-Nonane	93.5 %	50-200		08/30/24	09/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2435123	
Chloride	229	20.0	1	08/30/24	08/31/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/6/2024 8:08:52AM
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW09-0-9'
E408269-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435115
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	104 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	104 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435117
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/02/24	
Surrogate: n-Nonane	87.5 %	50-200		08/30/24	09/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435123
Chloride	65.2	20.0	1	08/30/24	08/31/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-007 Project Manager: Ashley Giovengo	Reported: 9/6/2024 8:08:52AM
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SW10-09'

E408269-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435115
Benzene	ND	0.0250	1	08/30/24	09/04/24	
Ethylbenzene	ND	0.0250	1	08/30/24	09/04/24	
Toluene	ND	0.0250	1	08/30/24	09/04/24	
o-Xylene	ND	0.0250	1	08/30/24	09/04/24	
p,m-Xylene	ND	0.0500	1	08/30/24	09/04/24	
Total Xylenes	ND	0.0250	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2435115
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/24	09/04/24	
Surrogate: Bromofluorobenzene	93.8 %	70-130		08/30/24	09/04/24	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		08/30/24	09/04/24	
Surrogate: Toluene-d8	101 %	70-130		08/30/24	09/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2435117
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/24	09/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/24	09/02/24	
Surrogate: n-Nonane	91.4 %	50-200		08/30/24	09/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2435123
Chloride	210	40.0	2	08/30/24	08/31/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/6/2024 8:08:52AM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435115-BLK1)Prepared: 08/30/24 Analyzed: 09/03/24

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	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

LCS (2435115-BS1)Prepared: 08/30/24 Analyzed: 09/03/24

Benzene	2.33	0.0250	2.50		93.3	70-130			
Ethylbenzene	2.37	0.0250	2.50		94.8	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.06	0.0500	5.00		101	70-130			
Total Xylenes	7.57	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike (2435115-MS1)Source: E408264-01Prepared: 08/30/24 Analyzed: 09/03/24

Benzene	2.36	0.0250	2.50	ND	94.5	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.54	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

Matrix Spike Dup (2435115-MSD1)Source: E408264-01Prepared: 08/30/24 Analyzed: 09/03/24

Benzene	2.25	0.0250	2.50	ND	89.9	48-131	5.01	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.8	45-135	4.54	27	
Toluene	2.41	0.0250	2.50	ND	96.5	48-130	4.28	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	1.45	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135	2.42	27	
Total Xylenes	7.48	0.0250	7.50	ND	99.7	43-135	2.10	27	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/6/2024 8:08:52AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435115-BLK1)

Prepared: 08/30/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

LCS (2435115-BS2)

Prepared: 08/30/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	39.7	20.0	50.0		79.4	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2435115-MS2)

Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2435115-MSD2)

Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.1	70-130	1.74	20	
Surrogate: Bromofluorobenzene	0.490		0.500		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/6/2024 8:08:52AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2435117-BLK1)					Prepared: 08/30/24 Analyzed: 09/01/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.5	50-200			

LCS (2435117-BS1)					Prepared: 08/30/24 Analyzed: 09/01/24				
Diesel Range Organics (C10-C28)	230	25.0	250		92.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

Matrix Spike (2435117-MS1)					Source: E408260-02		Prepared: 08/30/24 Analyzed: 09/01/24		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132			
Surrogate: n-Nonane	46.8		50.0		93.7	50-200			

Matrix Spike Dup (2435117-MSD1)					Source: E408260-02		Prepared: 08/30/24 Analyzed: 09/01/24		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132	1.11	20	
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/6/2024 8:08:52AM

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 (2435123-BLK1)					Prepared: 08/30/24 Analyzed: 08/31/24				
Chloride	ND	20.0							
LCS (2435123-BS1)					Prepared: 08/30/24 Analyzed: 08/31/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435123-MS1)					Source: E408260-03		Prepared: 08/30/24 Analyzed: 08/31/24		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2435123-MSD1)					Source: E408260-03		Prepared: 08/30/24 Analyzed: 08/31/24		
Chloride	253	20.0	250	ND	101	80-120	0.0119	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/06/24 08:08

- 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.

envirotech

Envirotech Analytical Laboratory

Printed: 8/30/2024 11:00:26AM

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:	08/30/24 05:00	Work Order ID:	E408269
Phone:	(539) 573-4018	Date Logged In:	08/30/24 06:00	Logged In By:	Keyliegh Hall
Email:	ashley.giovengo@wesominc.com	Due Date:	09/06/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: 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: N/A

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408285

Job Number: 01058-0007

Received: 9/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/10/24

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: 9/10/24



Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220

Project Name: East Pecos Federal 22-3H
Workorder: E408285
Date Received: 9/4/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/4/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Chain of Custody etc.	31

Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 09/10/24 12:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0-2'	E408285-01A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW11 - 0-9'	E408285-02A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW12 - 0-9'	E408285-03A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW13 - 0-9'	E408285-04A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW14 - 0-9'	E408285-05A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW15 - 0-9'	E408285-06A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW16 - 0-9'	E408285-07A	Soil	08/29/24	09/04/24	Glass Jar, 2 oz.
SW21 - 0-9'	E408285-08A	Soil	08/29/24	09/04/24	Glass Jar, 2 oz.
SW22 - 0-9'	E408285-09A	Soil	08/29/24	09/04/24	Glass Jar, 2 oz.
SW23 - 0-9'	E408285-10A	Soil	08/29/24	09/04/24	Glass Jar, 2 oz.
SW24 - 0-9'	E408285-11A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW25 - 0-9'	E408285-12A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW26 - 0-9'	E408285-13A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
SW27 - 0-9'	E408285-14A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS23-9'	E408285-15A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS24-9'	E408285-16A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS25-9'	E408285-17A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS26-9'	E408285-18A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS27-9'	E408285-19A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS28-9'	E408285-20A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW01 - 0-2'
E408285-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	86.6 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	71.9 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	669	20.0	1	09/04/24	09/04/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW11 - 0-9'
E408285-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	87.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	71.5 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	435	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW12 - 0-9'
E408285-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	74.4 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	152	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW13 - 0-9'
E408285-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	86.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	78.8 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	104	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW14 - 0-9'
E408285-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	76.0 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	50.7	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW15 - 0-9'
E408285-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	75.8 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	403	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW16 - 0-9'
E408285-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	79.5 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	718	100	5	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW21 - 0-9'
E408285-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	72.5 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	2960	100	5	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW22 - 0-9'
E408285-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	78.2 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	1400	100	5	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW23 - 0-9'
E408285-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	81.9 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	1640	100	5	09/04/24	09/05/24	

Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW24 - 0-9'
E408285-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	78.5 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	329	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW25 - 0-9'
E408285-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.5 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	77.1 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	205	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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SW26 - 0-9'
E408285-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	87.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	73.8 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	83.4	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

SW27 - 0-9'
E408285-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	67.6 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	560	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 12:30:34PM
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FS23-9'

E408285-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	71.6 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	96.8	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS24-9'

E408285-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	348	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	96.0	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	79.4 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	166	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS25-9'

E408285-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	72.2 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	79.7	20.0	1	09/04/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS26-9'
E408285-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.0 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	79.6 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	122	40.0	2	09/04/24	09/05/24	

Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 12:30:34PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS27-9'

E408285-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
Surrogate: n-Nonane	77.3 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	159	100	5	09/04/24	09/05/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:30:34PM

FS28-9'

E408285-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Benzene	ND	0.0250	1	09/04/24	09/05/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/05/24	
Toluene	ND	0.0250	1	09/04/24	09/05/24	
o-Xylene	ND	0.0250	1	09/04/24	09/05/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/05/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.0 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		09/04/24	09/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436007	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/09/24	
<i>Surrogate: n-Nonane</i>						
	75.1 %	50-200		09/03/24	09/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2436019	
Chloride	166	40.0	2	09/04/24	09/05/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 12:30:34PM

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
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Blank (2436016-BLK1)Prepared: 09/04/24 Analyzed: 09/05/24

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	7.16		8.00		89.5	70-130			

LCS (2436016-BS1)Prepared: 09/04/24 Analyzed: 09/05/24

Benzene	5.28	0.0250	5.00		106	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike (2436016-MS1)Source: E408285-07Prepared: 09/04/24 Analyzed: 09/05/24

Benzene	5.58	0.0250	5.00	ND	112	54-133			
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133			
Toluene	5.47	0.0250	5.00	ND	109	61-130			
o-Xylene	5.29	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			

Matrix Spike Dup (2436016-MSD1)Source: E408285-07Prepared: 09/04/24 Analyzed: 09/05/24

Benzene	5.39	0.0250	5.00	ND	108	54-133	3.48	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	3.53	20	
Toluene	5.26	0.0250	5.00	ND	105	61-130	3.75	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	3.58	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	3.50	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	3.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 12:30:34PM

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
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Blank (2436016-BLK1) Prepared: 09/04/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS (2436016-BS2) Prepared: 09/04/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0		80.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

Matrix Spike (2436016-MS2) Source: E408285-07 Prepared: 09/04/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	ND	81.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2436016-MSD2) Source: E408285-07 Prepared: 09/04/24 Analyzed: 09/05/24

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.7	70-130	0.988	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 12:30:34PM

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 (2436007-BLK1)					Prepared: 09/03/24 Analyzed: 09/09/24				
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 (2436007-BS1)					Prepared: 09/03/24 Analyzed: 09/09/24				
Diesel Range Organics (C10-C28)	183	25.0	250		73.1	38-132			
Surrogate: n-Nonane	40.6		50.0		81.2	50-200			

Matrix Spike (2436007-MS1)					Source: E408285-12		Prepared: 09/03/24 Analyzed: 09/09/24		
Diesel Range Organics (C10-C28)	181	25.0	250	ND	72.5	38-132			
Surrogate: n-Nonane	41.1		50.0		82.1	50-200			

Matrix Spike Dup (2436007-MSD1)					Source: E408285-12		Prepared: 09/03/24 Analyzed: 09/09/24		
Diesel Range Organics (C10-C28)	180	25.0	250	ND	72.2	38-132	0.481	20	
Surrogate: n-Nonane	38.7		50.0		77.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 12:30:34PM

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 (2436019-BLK1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	ND	20.0							
LCS (2436019-BS1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2436019-MS1)					Source: E408285-05		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	322	20.0	250	50.7	109	80-120			
Matrix Spike Dup (2436019-MSD1)					Source: E408285-05		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	313	20.0	250	50.7	105	80-120	3.09	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/10/24 12:30

- 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.



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E 408285		01058-0007					x	x				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: (575)689-7597														
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com														
Phone: 575-988-0055				Miscellaneous: Jim Raley														
Email: agiovengo@ensolum.com																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
12:35	8/29/2024	Sd	1	SW01 - 0-2'		1						X						
12:26	8/29/2024	Sd	1	SW11 - 0-9'		2						X						
12:25	8/29/2024	Sd	1	SW12 - 0-9'		3						X						
12:23	8/29/2024	Sd	1	SW13 - 0-9'		4						X						
12:22	8/29/2024	Sd	1	SW14 - 0-9'		5						X						
12:20	8/29/2024	Sd	1	SW15 - 0-9'		6						X						
10:30	8/29/2024	S	1	SW16 - 0-9'		7						X						
10:05	8/29/2024	S	1	SW21 - 0-9'		8						X						
10:06	8/29/2024	S	1	SW22 - 0-9'		9						X						
10:09	8/29/2024	S	1	SW23 - 0-9'		10						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																		
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: Cole Burton																		
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: <input checked="" type="checkbox"/> 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											
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Chain of Custody

Page 2 of 5

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E408285		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								X					
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:31	8/29/2024	Sd	1	SW24 - 0-9'		11						X					
12:30	8/29/2024	Sd	1	SW25 - 0-9'		12						X					
12:28	8/29/2024	Sd	1	SW26 - 0-9'		13						X					
12:33	8/29/2024	Sd	1	SW27 - 0-9'		14						X					
9:52	8/29/2024	Sd	1	FS23 - 9'		15						X					
10:06	8/29/2024	Sd	1	FS24 - 9'		16						X					
10:13	8/29/2024	Sd	1	FS25 - 9'		17						X					
10:22	8/29/2024	Sd	1	FS26 - 9'		18						X					
10:30	8/29/2024	Sd	1	FS27 - 9'		19						X					
10:37	8/29/2024	Sd	1	FS28 - 9'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com 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: Cole Burton																	
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									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 9/4/2024 6:19:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	09/03/24 06:00	Work Order ID:	E408285
Phone:	(539) 573-4018	Date Logged In:	08/30/24 16:25	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wesominc.com	Due Date:	09/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Project: East Pecos Federal 22-3H split between workorders E408285 & E408286 due to sample volume.

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E408286

Job Number: 01058-0007

Received: 9/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/10/24

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: 9/10/24

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E408286
Date Received: 9/4/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/4/2024 5:00:00AM, under the Project Name: East Pecos Federal 22-3H.

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

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

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

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

Respectfully,

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

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Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 09/10/24 05:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS29 - 9'	E408286-01A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS30 - 9'	E408286-02A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS31 - 9'	E408286-03A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS32 - 9'	E408286-04A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS33 - 9'	E408286-05A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS34 - 9'	E408286-06A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS35 - 9'	E408286-07A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS36 - 9'	E408286-08A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS37 - 9'	E408286-09A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS38 - 9'	E408286-10A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS39 - 9'	E408286-11A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS40 - 2-9'	E408286-12A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS41 - 9'	E408286-13A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS42 - 9'	E408286-14A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS43 - 9'	E408286-15A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS44 - 9'	E408286-16A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS45 - 9'	E408286-17A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS46 - 9'	E408286-18A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS47 - 9'	E408286-19A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS48 - 9'	E408286-20A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS49 - 9'	E408286-21A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS50 - 9'	E408286-22A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS51 - 9'	E408286-23A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.
FS52 - 9'	E408286-24A	Solid	08/29/24	09/04/24	Glass Jar, 4 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 5:31:12AM
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FS29 - 9'

E408286-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	70.6 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	145	100	5	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS30 - 9'

E408286-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.2 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	72.9 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	125	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS31 - 9'

E408286-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
<i>Surrogate: n-Nonane</i>						
	66.7 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	215	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS32 - 9'

E408286-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	87.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	70.6 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	150	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS33 - 9'

E408286-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	68.3 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	189	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS34 - 9'

E408286-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.1 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	69.2 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	136	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 5:31:12AM
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FS35 - 9'

E408286-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	70.6 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	95.6	20.0	1	09/05/24	09/05/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/10/2024 5:31:12AM

FS36 - 9'

E408286-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.2 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
<i>Surrogate: n-Nonane</i>						
	72.1 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	78.7	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS37 - 9'

E408286-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	72.2 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	156	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS38 - 9'

E408286-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	65.9 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	108	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS39 - 9'

E408286-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	66.7 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	78.6	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS40 - 2-9'
E408286-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	70.0 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	132	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS41 - 9'

E408286-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
<i>Surrogate: n-Nonane</i>						
	70.2 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	314	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/10/2024 5:31:12AM
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FS42 - 9'

E408286-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	72.2 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	87.3	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS43 - 9'

E408286-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	73.2 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	136	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS44 - 9'

E408286-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	65.8 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	97.0	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS45 - 9'

E408286-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	69.5 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	164	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS46 - 9'

E408286-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	87.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	68.5 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	77.3	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS47 - 9'

E408286-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	72.3 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	45.2	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS48 - 9'

E408286-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	88.7 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436006	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/24	09/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/24	09/06/24	
Surrogate: n-Nonane	71.1 %	50-200		09/03/24	09/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436020	
Chloride	136	20.0	1	09/05/24	09/05/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS49 - 9'

E408286-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	98.5 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/07/24	
Surrogate: n-Nonane	86.7 %	50-200		09/04/24	09/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436030	
Chloride	69.4	20.0	1	09/04/24	09/04/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/10/2024 5:31:12AM

FS50 - 9'

E408286-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/07/24	
<i>Surrogate: n-Nonane</i>						
	79.3 %	50-200		09/04/24	09/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2436030	
Chloride	102	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS51 - 9'

E408286-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/07/24	
Surrogate: n-Nonane	86.3 %	50-200		09/04/24	09/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436030	
Chloride	59.1	20.0	1	09/04/24	09/04/24	



Sample Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported: 9/10/2024 5:31:12AM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

FS52 - 9'

E408286-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Benzene	ND	0.0250	1	09/04/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/04/24	09/06/24	
Toluene	ND	0.0250	1	09/04/24	09/06/24	
o-Xylene	ND	0.0250	1	09/04/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/04/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/04/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2436031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/04/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		09/04/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436026	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/04/24	09/07/24	
Surrogate: n-Nonane	84.2 %	50-200		09/04/24	09/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2436030	
Chloride	123	20.0	1	09/04/24	09/04/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

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 (2436028-BLK1)Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			

LCS (2436028-BS1)Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	4.21	0.0250	5.00		84.2	70-130			
Ethylbenzene	4.05	0.0250	5.00		80.9	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.00	0.0250	5.00		80.0	70-130			
p,m-Xylene	8.24	0.0500	10.0		82.4	70-130			
Total Xylenes	12.2	0.0250	15.0		81.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130			

Matrix Spike (2436028-MS1)Source: E408286-08Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	4.44	0.0250	5.00	ND	88.7	54-133			
Ethylbenzene	4.27	0.0250	5.00	ND	85.3	61-133			
Toluene	4.36	0.0250	5.00	ND	87.1	61-130			
o-Xylene	4.23	0.0250	5.00	ND	84.6	63-131			
p,m-Xylene	8.67	0.0500	10.0	ND	86.7	63-131			
Total Xylenes	12.9	0.0250	15.0	ND	86.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.9	70-130			

Matrix Spike Dup (2436028-MSD1)Source: E408286-08Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	14.3	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.5	61-133	14.3	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	14.5	20	
o-Xylene	4.88	0.0250	5.00	ND	97.7	63-131	14.3	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	14.3	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.2	63-131	14.3	20	
Surrogate: 4-Bromochlorobenzene-PID	7.05		8.00		88.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

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
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Blank (2436031-BLK1)Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

LCS (2436031-BS1)Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	5.17	0.0250	5.00		103	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	4.95	0.0250	5.00		99.1	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

Matrix Spike (2436031-MS1)Source: E409005-04Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	5.14	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.7	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

Matrix Spike Dup (2436031-MSD1)Source: E409005-04Prepared: 09/04/24 Analyzed: 09/06/24

Benzene	5.16	0.0250	5.00	ND	103	54-133	0.398	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133	0.715	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	0.424	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	0.758	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.660	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	0.692	20	
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

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
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Blank (2436028-BLK1) Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS (2436028-BS2) Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	35.8	20.0	50.0		71.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

Matrix Spike (2436028-MS2) Source: E408286-08 Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	37.2	20.0	50.0	ND	74.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2436028-MSD2) Source: E408286-08 Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0	ND	79.1	70-130	6.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

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
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Blank (2436031-BLK1) Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2436031-BS2) Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

Matrix Spike (2436031-MS2) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2436031-MSD2) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.9	70-130	2.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436006-BLK1) Prepared: 09/03/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	35.8		50.0		71.5	50-200			

LCS (2436006-BS1) Prepared: 09/03/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	181	25.0	250		72.3	38-132			
Surrogate: n-Nonane	37.9		50.0		75.8	50-200			

Matrix Spike (2436006-MS1) Source: E408286-01 Prepared: 09/03/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	181	25.0	250	ND	72.6	38-132			
Surrogate: n-Nonane	37.8		50.0		75.5	50-200			

Matrix Spike Dup (2436006-MSD1) Source: E408286-01 Prepared: 09/03/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	184	25.0	250	ND	73.5	38-132	1.29	20	
Surrogate: n-Nonane	37.9		50.0		75.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436026-BLK1) Prepared: 09/04/24 Analyzed: 09/06/24

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 (2436026-BS1) Prepared: 09/04/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	210	25.0	250		83.9	38-132			
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

Matrix Spike (2436026-MS1) Source: E408282-21 Prepared: 09/04/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	200	25.0	250	ND	80.1	38-132			
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			

Matrix Spike Dup (2436026-MSD1) Source: E408282-21 Prepared: 09/04/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	194	25.0	250	ND	77.8	38-132	2.98	20	
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

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 (2436020-BLK1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	ND	20.0							
LCS (2436020-BS1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2436020-MS1)					Source: E408286-07		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	345	20.0	250	95.6	99.7	80-120			
Matrix Spike Dup (2436020-MSD1)					Source: E408286-07		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	366	20.0	250	95.6	108	80-120	5.86	20	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/10/2024 5:31:12AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2436030-BLK1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	ND	20.0							
LCS (2436030-BS1)					Prepared: 09/04/24 Analyzed: 09/04/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2436030-MS1)					Source: E408286-22		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	358	20.0	250	102	102	80-120			
Matrix Spike Dup (2436030-MSD1)					Source: E408286-22		Prepared: 09/04/24 Analyzed: 09/04/24		
Chloride	333	20.0	250	102	92.4	80-120	7.22	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/10/24 05:31

- 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.

Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E408286		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								x					
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
10:56	8/29/2024	Sd	1	FS29 - 9'		1						X					
11:03	8/29/2024	Sd	1	FS30 - 9'		2						X					
11:10	8/29/2024	Sd	1	FS31 - 9'		3						X					
11:17	8/29/2024	Sd	1	FS32 - 9'		4						X					
11:20	8/29/2024	Sd	1	FS33 - 9'		5						X					
12:26	8/29/2024	Sd	1	FS34 - 9'		6						X					
12:29	8/29/2024	Sd	1	FS35 - 9'		7						X					
12:31	8/29/2024	Sd	1	FS36 - 9'		8						X					
12:34	8/29/2024	Sd	1	FS37 - 9'		9						X					
12:37	8/29/2024	Sd	1	FS38 - 9'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
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: Cole Burton																	
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: <input checked="" type="checkbox"/> 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							
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: WPX Energy Permian, LLC				Company: WPX Energy Permian, LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: East Pecos Federal 22-3H				Address: 5315 Buena Vista Dr		E408286		Job Number				01058-0007					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								X					
Address: 3122 National Parks Hwy				Phone: (575)689-7597													
City, State, Zip: Carlsbad NM, 88220				Email: jim.raley@dnv.com													
Phone: 575-988-0055				Miscellaneous: Jim Raley													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
13:07	8/29/2024	Sd	1	FS39 - 9'		11						X					
12:37	8/29/2024	Sd	1	FS40 - 2-9'		12						X					
12:39	8/29/2024	Sd	1	FS41 - 9'		13						X					
12:40	8/29/2024	Sd	1	FS42 - 9'		14						X					
12:40	8/29/2024	Sd	1	FS43 - 9'		15						X					
12:46	8/29/2024	Sd	1	FS44 - 9'		16						X					
12:43	8/29/2024	Sd	1	FS45 - 9'		17						X					
12:42	8/29/2024	Sd	1	FS46 - 9'		18						X					
12:45	8/29/2024	Sd	1	FS47 - 9'		19						X					
12:44	8/29/2024	Sd	1	FS48 - 9'		20						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, jim.raley@dnv.com, iestrella@ensolum.com, bdeal@ensolum, chamilton@ensolum.com, bsimmons@ensolum.com																	
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: Cole Burton																	
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: <input checked="" type="checkbox"/> / 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							
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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Page 5 of 5

Received by OGD: 10/30/2024 7:27:18 AM

Received by OGD: 10/30/2024 7:27:18 AM

Received by OGD: 10/30/2024 7:27:18 AM

Received by OGD: 10/30/2024 7:27:18 AM

Received by OGD: 10/30/2024 7:27:18 AM

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Received by OGD: 10/30/2024 7:27:18 AM

Received by OGD: 10/30/2024 7:27:18 AM

Envirotech Analytical Laboratory

Printed: 9/4/2024 6:24:02AM

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:	WPX Energy - Carlsbad	Date Received:	09/03/24 06:00	Work Order ID:	E408286
Phone:	(539) 573-4018	Date Logged In:	08/30/24 16:35	Logged In By:	Raina Schwanz
Email:	ashley.giovengo@wesominc.com	Due Date:	09/09/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Copy from E408285. Project: East Pecos
Federal 22-3H split between workorders
E408285 & E408286 due to sample
volume.

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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: East Pecos Federal 22-3H

Work Order: E409186

Job Number: 01058-0007

Received: 9/23/2024

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

Ashley Giovengo
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: East Pecos Federal 22-3H
Workorder: E409186
Date Received: 9/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2024 5:30:00AM, under the Project Name: East Pecos Federal 22-3H.

The analytical test results summarized in this report with the Project Name: East Pecos Federal 22-3H 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:

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Office: 505-421-LABS(5227)
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ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
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Sample Summary

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/24/24 10:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0 - 2'	E409186-01A	Soil	09/20/24	09/23/24	Glass Jar, 2 oz.
FS24 - 9'	E409186-02A	Soil	09/20/24	09/23/24	Glass Jar, 2 oz.



Sample Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220	Project Name: East Pecos Federal 22-3H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/24/2024 10:51:34AM
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SW01 - 0 - 2'

E409186-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2439001	
Benzene	ND	0.0250	1	09/23/24	09/23/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/23/24	
Toluene	ND	0.0250	1	09/23/24	09/23/24	
o-Xylene	ND	0.0250	1	09/23/24	09/23/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/23/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/23/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		09/23/24	09/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2439001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		09/23/24	09/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2438161	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/23/24	
Surrogate: n-Nonane	91.1 %	50-200		09/21/24	09/23/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439012	
Chloride	482	20.0	1	09/23/24	09/23/24	



Sample Data

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

Project Name: East Pecos Federal 22-3H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/24/2024 10:51:34AM

FS24 - 9'

E409186-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439001	
Benzene	ND	0.0250	1	09/23/24	09/23/24	
Ethylbenzene	ND	0.0250	1	09/23/24	09/23/24	
Toluene	ND	0.0250	1	09/23/24	09/23/24	
o-Xylene	ND	0.0250	1	09/23/24	09/23/24	
p,m-Xylene	ND	0.0500	1	09/23/24	09/23/24	
Total Xylenes	ND	0.0250	1	09/23/24	09/23/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	09/23/24	09/23/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2439001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/24	09/23/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	09/23/24	09/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2438161	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/24	09/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/24	09/23/24	
<i>Surrogate: n-Nonane</i>						
		86.5 %	50-200	09/21/24	09/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2439012	
Chloride	277	20.0	1	09/23/24	09/23/24	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/24/2024 10:51:34AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439001-BLK1)Prepared: 09/23/24 Analyzed: 09/23/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			

LCS (2439001-BS1)Prepared: 09/23/24 Analyzed: 09/23/24

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike (2439001-MS1)Source: E409187-07Prepared: 09/23/24 Analyzed: 09/23/24

Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
o-Xylene	5.12	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

Matrix Spike Dup (2439001-MSD1)Source: E409187-07Prepared: 09/23/24 Analyzed: 09/23/24

Benzene	5.11	0.0250	5.00	ND	102	54-133	4.14	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	4.11	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	4.11	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	4.06	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	4.13	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.7	63-131	4.11	20	
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/24/2024 10:51:34AM

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
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Blank (2439001-BLK1) Prepared: 09/23/24 Analyzed: 09/23/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

LCS (2439001-BS2) Prepared: 09/23/24 Analyzed: 09/23/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2439001-MS2) Source: E409187-07 Prepared: 09/23/24 Analyzed: 09/23/24

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2439001-MSD2) Source: E409187-07 Prepared: 09/23/24 Analyzed: 09/23/24

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130	0.516	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/24/2024 10:51:34AM

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
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Blank (2438161-BLK1) Prepared: 09/21/24 Analyzed: 09/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2438161-BS1) Prepared: 09/21/24 Analyzed: 09/23/24

Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS Dup (2438161-BSD1) Prepared: 09/21/24 Analyzed: 09/23/24

Diesel Range Organics (C10-C28)	245	25.0	250		98.0	38-132	2.13	20	
Surrogate: n-Nonane	57.0		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/24/2024 10:51:34AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439012-BLK1)					Prepared: 09/23/24 Analyzed: 09/23/24				
Chloride	ND	20.0							
LCS (2439012-BS1)					Prepared: 09/23/24 Analyzed: 09/23/24				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2439012-MS1)					Source: E409186-01		Prepared: 09/23/24 Analyzed: 09/23/24		
Chloride	624	20.0	250	482	56.9	80-120			M2
Matrix Spike Dup (2439012-MSD1)					Source: E409186-01		Prepared: 09/23/24 Analyzed: 09/23/24		
Chloride	639	20.0	250	482	63.0	80-120	2.39	20	M2

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	East Pecos Federal 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/24/24 10:51

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/23/2024 10:41:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: WPX Energy - Carlsbad
Phone: (539) 573-4018
Email: ashley.giovengo@wesominc.com

Date Received: 09/23/24 05:30
Date Logged In: 09/20/24 14:56
Due Date: 09/23/24 17:00 (0 day TAT)

Work Order ID: E409186
Logged In By: Caitlin Mars

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.

Envirotech Analytical Laboratory

Printed: 9/23/2024 10:41:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	09/23/24 05:30	Work Order ID:	E409186
Phone:	(539) 573-4018	Date Logged In:	09/20/24 14:56	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wesominc.com	Due Date:	09/23/24 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.



APPENDIX F

NMOCD Correspondence

From: [Raley, Jim](#)
To: RosaM.Romero@state.nm.us; [EMNRD Bratcher Mike](#); [Anderson, Lacey](#); [Ashley Giovengo](#)
Subject: Major Release Notification
Date: Tuesday, April 4, 2023 9:03:16 PM

[**EXTERNAL EMAIL**]

NMOCD District II,

Today 4/4/2023, we had a tank overflow of 25+ bbls to lined secondary containment at the East Pecos 22-3H wellpad. There was also some fluids that impacted the pad surface. The cause and specific volume is yet to be determined. The source of the release has been stopped and the area is stabilized.

We will follow-up with a C-141 within 14 days. This email serves as initial notification for a major release based on volume only.

Jim Raley - Enviro Professional
Permian Basin - Devon Energy
575-689-7597

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

From: [Enviro, OCD, EMNRD](#)
To: [Ashley Giovengo](#)
Subject: RE: [EXTERNAL] Devon Energy - East Pecos Federal 22-3H - 48-hour Liner Inspection Notification Email
Date: Monday, April 10, 2023 10:04:48 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Ashley,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, April 6, 2023 4:50 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ashley Ager <aager@ensolum.com>; jim.raley@dvn.com; lacee.anderson@dvn.com
Subject: [EXTERNAL] Devon Energy - East Pecos Federal 22-3H - 48-hour Liner Inspection Notification Email

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello All,

This email is to notify the NMOCD that Ensolum, LLC will be at the East Pecos Federal 22-3H to perform a liner inspection. The liner inspection will be conducted on Tuesday, April 11, 2023 (04/11/2023) at 09:00 am MST.

Please let me know if you plan to be onsite to oversee this inspection.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Ashley Giovengo](#)
To: [Wells, Shelly, EMNRD](#)
Cc: [Raley, Jim](#); [Cole Burton](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] 48-hour confirmation sampling notification email - nAPP2310336531
Date: Thursday, September 19, 2024 3:11:55 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Great, thank you so much!



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 19, 2024 2:14 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: Raley, Jim <jim.aley@dm.com>; Cole Burton <cburton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-hour confirmation sampling notification email - nAPP2310336531

[**EXTERNAL EMAIL**]

Hi Ashley,

I understand the situation now so the variance to collect samples on 9/20/24 at 9:30am is approved and it has been notated in the incident.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, September 19, 2024 2:04 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Raley, Jim <jim.raley@dyn.com>; Cole Burton <cburton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-hour confirmation sampling notification email - nAPP2310336531

Yes ma'am, please see the attached correspondence from Jim Raley of WPX Energy. Jim is currently out of town and was unable to submit the notice via web portal. Will you accept a variance request on the 2 days' notice? Jim did not respond until I had already left the office for the day yesterday.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 19, 2024 10:13 AM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: Raley, Jim <jim.raley@dyn.com>; Cole Burton <cburton@ensolum.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] 48-hour confirmation sampling notification email - nAPP2310336531

[**EXTERNAL EMAIL**]

Hi Ashley,

Sampling notifications are still to be made at least two business days in advance via a C-141N.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>

From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Thursday, September 19, 2024 9:57 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Raley, Jim <jim.ralej@dyn.com>; Cole Burton <cburton@ensolum.com>

Subject: [EXTERNAL] 48-hour confirmation sampling notification email - nAPP2310336531

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Please see the 48-hour confirmation sampling notification for the East Pecos Federal 22-3H Site (nAPP2310336531). See the details below.

Company: WPX Energy

When: 09/20/24 @ 09:30 MST.

Where: D-27-26S-29E (32.0208407, -103.9791165)

Incident Number: nAPP2310336531

Number of Samples: 2

Spill Sq. Footage: 8,622 sq. ft.

Additional Information: Please contact Cole Burton, Project Manager @ 575-706-5056

Additional Instructions: (32.0208407, -103.9791165)

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

"Your authenticity is your superpower." – Unknown

From: [Raley, Jim](#)
To: [Ashley Giovengo](#)
Cc: [Cole Burton](#); [Chad Hamilton](#)
Subject: Re: [EXTERNAL] Please Submit - 48-hour Confirmation Sampling Notification Email - East Pecos Federal 22-3H - Incident Number nAPP2310336531
Date: Wednesday, September 18, 2024 5:48:21 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

Send to OCD via email. Will put in system when I get back in town.

Jim Raley - Enviro Professional
Permian Basin - Devon Energy
575-689-7597

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, September 18, 2024 8:32:34 AM
To: Raley, Jim <Jim.Raley@dvn.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Please Submit - 48-hour Confirmation Sampling Notification Email - East Pecos Federal 22-3H - Incident Number nAPP2310336531

Jim,

Can you please submit a 48-hour confirmation sampling notification for the East Pecos Federal 22-3H Site (nAPP2310336531). See the details below.

When: 09/20/24 @ 09:30 MST.
Where: D-27-26S-29E (32.0208407, -103.9791165)
Incident Number: nAPP2310336531
Number of Samples: 2
Spill Sq. Footage: 8,622 sq. ft.

Additional Information: Please contact Cole Burton, Project Manager @ 575-706-5056

Additional Instructions: (32.0208407, -103.9791165)

Thanks,



Ashley Giovengo
Senior Scientist
575-988-0055
Ensolum, LLC



“Your authenticity is your superpower.” – Unknown

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

QUESTIONS

Action 372186

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372186
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/13/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372186

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372186
	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.	8/9/2024

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QUESTIONS

Action 372187

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372187
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source

Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
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CONDITIONS

Action 372187

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372187
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
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QUESTIONS

Action 372190

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372190
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372190

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372190
	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.	8/9/2024

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QUESTIONS

Action 372193

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372193
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372193

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372193
	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.	8/9/2024

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QUESTIONS

Action 372193

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372193
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source

Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/17/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372193

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372193
	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.	8/9/2024

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QUESTIONS

Action 372195

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372195
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/18/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372195

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372195
	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.	8/9/2024

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QUESTIONS

Action 372196

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372196
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source

Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/19/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 372196

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372196
	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.	8/9/2024

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QUESTIONS

Action 372197

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372197
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/20/2024
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Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 372197
	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.	8/9/2024

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

QUESTIONS

Action 374537

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 374537
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	D-27-26S-29E (32.0208407, -103.9791165)
Please provide any information necessary for navigation to sampling site	Please contact Cole Burton, Project Manager @ 575-706-5056

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CONDITIONS

Action 374537

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 374537
	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.	8/16/2024

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QUESTIONS

Action 376659

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376659
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/26/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 376659

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376659
	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.	8/22/2024

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QUESTIONS

Action 376662

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376662
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
Time sampling will commence	09:11 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 376662

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376662
	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.	8/22/2024

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QUESTIONS

Action 376660

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376660
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source

Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	8,622
What is the estimated number of samples that will be gathered	42
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Please contact Cole Burton, Project Manager @ 575-706-5056
Please provide any information necessary for navigation to sampling site	(32.0208407, -103.9791165)

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CONDITIONS

Action 376660

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 376660
	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.	8/22/2024

From: [Wells, Shelly, EMNRD](#)
To: [Raley, Jim](#)
Cc: [Ashley Giovengo](#); [Cole Burton](#)
Subject: RE: [EXTERNAL] Extension Request -- WPX Energy nAPP2310336531
Date: Thursday, August 8, 2024 11:44:42 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Good morning Jim,

The extension request for NAPP2310336531 EAST PECOS 22-3H is approved. The new due date to submit your remediation closure report to the OCD is November 6, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Raley, Jim <Jim.Raley@dmv.com>
Sent: Thursday, August 8, 2024 8:57 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Cole Burton <cburton@ensolum.com>
Subject: [EXTERNAL] Extension Request -- WPX Energy nAPP2310336531

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Shelly,

We are currently in progress of completing the remediation of incident nAPP2310336531. One calls have been placed and we will begin excavation next week. WPX Energy respectfully requests an additional 90 days from the current due date of 8/11/2024 to complete the remediation and deliver a closure report.

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220

C: (575)689-7597 | jim.raley@dyn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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Santa Fe, NM 87505

QUESTIONS

Action 396573

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396573
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310336531
Incident Name	NAPP2310336531 EAST PECOS 22-3H @ 30-015-42285
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-42285] EAST PECOS FEDERAL 22 #003H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	EAST PECOS 22-3H
Date Release Discovered	04/04/2023
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Treating Tower Crude Oil Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Treating Tower Produced Water Released: 25 BBL Recovered: 23 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 396573

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396573
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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@dmn.com Date: 10/29/2024
--	--

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QUESTIONS, Page 3

Action 396573

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	396573
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	8280
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	11820
GRO+DRO	(EPA SW-846 Method 8015M)	8380
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/13/2024
On what date will (or did) the final sampling or liner inspection occur	04/11/2023
On what date will (or was) the remediation complete(d)	09/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	20525
What is the estimated volume (in cubic yards) that will be reclaimed	8640
What is the estimated surface area (in square feet) that will be remediated	20525
What is the estimated volume (in cubic yards) that will be remediated	8640

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 396573

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	396573
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	30-015-42285 EAST PECOS FEDERAL 22 #003H
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	Red Bluff Disposal Facility
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 10/29/2024
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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.

District I

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District II

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District III

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District IV

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

QUESTIONS, Page 5

Action 396573

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	396573
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank containment, tanks and associated production equipment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	6476
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1043
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-42285 EAST PECOS FEDERAL 22 #003H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 10/29/2024

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QUESTIONS, Page 6

Action 396573

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396573
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	376662
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/28/2024
What was the (estimated) number of samples that were to be gathered	42
What was the sampling surface area in square feet	8622

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 396573

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 396573
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of SW16 through SW23, BH01, BH02, and SS04B is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	11/1/2024