



SITE CHARACTERIZATION AND REMEDIATION PLAN

RDX 16 #009

Eddy County, New Mexico

Incident Numbers

nAPP2317840368

nAPP2322658221

Prepared For:

WPX Energy Permian, LLC

5315 Buena Vista Dr.

Carlsbad, NM 88220

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

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Site Characterization and Remediation Plan (SCRP) detailing delineation soil sampling activities at the RDX 16 #009 (Site) associated with two inadvertent releases of crude oil and produced water. Based on the site characterization and laboratory analytical results from recent soil sampling events, WPX proposes this SCR, which summarizes corrective actions and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit F, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.0453377, -103.8900681) and is associated with oil and gas exploration and production operations on State Land (**Figure 1** in **Appendix A**).

Incident Number nAPP2317840368

On June 26, 2023, it was discovered that a water transfer pump was inadvertently left off causing a release of approximately 50 barrels (bbls) of crude oil and 522 bbls of produced water within an earthen bermed tank battery containment. Fluids escaped the containment and flowed onto the pad surface and adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 40 bbls of crude oil and 480 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld Geospatial Positioning System (GPS) receiver, which is presented as Release Area #1 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the New Mexico Oil Conservation Division (NMOCD) via email and on a Release Notification and Corrective Action Form C-141 (Form C-141) on June 27, 2023, which was subsequently assigned Incident Number nAPP2317840368. It should be noted that the date of the release discovery on the initial C-141 is incorrect, which was communicated to the NMOCD via email and can be referenced in **Appendix B**.

In July 2023, WPX conducted initial restoration of pad surfaces within and around the earthen bermed tank battery containment. Further remediation to include pasture soils required an approved Right-of-Entry (ROE) permit prior to ground disturbance. As a result, on July 20, 2023, SWCA Environmental Consultants (SWCA) was retained to conduct a cultural survey of the Site, which was completed on August 3, 2023. Following the finalized cultural survey of the Site, an ROE permit was submitted on October 5, 2023, and issued on October 31, 2023.

Incident Number nAPP2322658221

On August 14, 2023, it was discovered that a breaker to the water transfer pump tripped during a power outage causing a release of approximately 149 barrels bbls of produced water within the same earthen bermed tank battery containment as Incident Number nAPP2317840368. All fluids remained within the earthen bermed tank battery containment. A vacuum truck was dispatched to the Site and recovered approximately 110 bbls of produced water. Following discovery, Etech mapped the observed release footprint utilizing a handheld GPS receiver, which is presented as Release Area #2 shown in **Figure 2** in **Appendix A**. WPX reported the release to Mike Bratcher and Rosa Romero from the NMOCD via email and on a Form C-141 on August 14, 2023, which was subsequently assigned Incident Number nAPP2322658221.

Due to the delay of land access caused by ROE permitting processes, an extension to complete remediation activities and prepare a report for both incidents was requested and granted by the NMOCD for December 23, 2023.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based off a nearby soil boring advanced by Atkins Engineering Associates, Inc., located approximately 0.21 miles west of the Site. Soil boring (C-04068-POD1) was advanced on May 11, 2017, via a truck mounted drill rig equipped with a hollow stem auger to a total depth of 125 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. Following the observation period, the boring was plugged and abandoned according to the appropriate regulations. The well log for the referenced soil boring is provided in **Appendix C**. The soil boring location and other nearby soil borings and/or regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

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

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8021B	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

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

DELINEATION SOIL SAMPLING ACTIVITIES

On October 19 and November 9, 2023, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the two overlapping subject release areas, henceforth

combined into one area and referred to as the Area of Concern (AOC). Fourteen delineation potholes (PH01 through PH14) were advanced via mechanical equipment within and surrounding the AOC. Delineation activities were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two samples were collected from each delineation sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix D**. The delineation soil sample locations and the AOC are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix E**.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples collected surrounding the AOC and assisting with lateral delineation (PH07 through PH10, PH11 PH13, and PH14) were compliant with Site Closure Criteria and/or the reclamation standard.

Laboratory analytical results for samples collected within the AOC (PH01 through PH06, and PH12) indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standard, however, chloride and/or TPH-GRO+TPH-DRO/TPH concentrations exceeded the Site Closure Criteria and/or the reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 4,050 mg/kg to 25,500 mg/kg. Laboratory analytical results are summarized in **Table 1** included in **Appendix F**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix G**.

PROPOSED REMEDIATION PLAN

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

- Laboratory analytical results for delineation soil samples PH07 through PH10, PH11, PH13, and PH14 indicated all concentrations of the COCs were below the Site Closure Criteria and/or reclamation standard, which sufficiently defines the horizontal periphery of the AOC.
- Laboratory analytical results for the terminus depth of all delineation soil samples indicated all concentrations of the COCs were below Site Closure Criteria, which sufficiently defines the vertical extent of the AOC.
- Laboratory analytical results indicated BTEX concentrations were below Site Closure Criteria and/or reclamation standards for all delineation soil samples.
- Laboratory analytical results for delineation soil samples collected within the AOC indicated concentrations of chloride and TPH-GRO+TPH-DRO/TPH exceeding the Site Closure Criteria and/or reclamation standard exist up to 4 feet bgs, which are characterized by concentrations ranging from 4,760 mg/kg to 25,200 mg/kg and 4,050 mg/kg to 25,500 mg/kg, respectively. TPH concentrations only appear to exist in the proximity of soil sample locations PH01 through PH03, which dramatically decrease below Site Closure Criteria before 4 feet bgs.

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

- WPX proposes to advance excavation activities to remove residual impacts greater than Site Closure Criteria according to delineation soil sample analytical laboratory results to the Maximum Extent Practical (MEP) and to leave residual impacts, classified as in compliance Site Closure Criteria but greater than reclamation standards, in place until the Site undergoes major deconstruction or plugging and abandonment activities, whichever occurs first. As such, approximately 365 cubic yards of residually impacted soil are anticipated to be excavated and removed from the Site (**Figure 3 in Appendix A**). Following the removal of soil, confirmation 5-point composite soil samples will be collected from the excavation and submitted to an accredited laboratory for analysis of chloride, TPH, and BTEX.
 - Due to the large AOC square footage (10,422 square feet), WPX requests a sampling variance of which confirmation soil samples represent a maximum of 400 square feet per soil sample. As such, 30 samples are anticipated to be collected from the excavation floors sidewalls compared to 59 samples utilizing a frequency of 200 square feet.
- While excavating residual impacts as defined by Site Closure Criteria, proposed excavation areas may require additional oversight and supplementary safety measures near surface and/or subsurface pipelines and production equipment before or during excavation activities. WPX and/or a third-party operator may implement additional safety precautions above encroachment guidelines at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities. Such implemented restrictions may inflict, but are not limited to the following:
 - Decreasing the proposed excavation depth(s) in order to maintain surface and/or subsurface utility and production equipment stability.
 - Decreasing or altering the proposed excavation extent(s) in order to maintain surface and/or subsurface utility and production equipment stability.
- Impacted soil will be transported to a nearby landfill facility for disposal under approved WPX waste manifests.
- Once remediation is complete and receipt of excavation confirmation soil sample results indicates soil concentrations exceeding Site Closure Criteria has been removed and/or excavated to the MEP, WPX will backfill the excavation(s) with clean, locally sourced soil and restored to "as close to its original state" as possible and determine the next appropriate measure of corrective action:
 - Documenting excavation activities to the MEP and the presence of residual impacts left in place immediately adjacent to and under active production equipment and/or utilities with a subsequent Deferral Report detailing assessment and sampling activities or
 - Preparing a SCRP Addendum detailing the next course of remedial actions to address the presence of potential remaining soil impacts and the Site, based off an estimated lateral and vertical extent of impacted soil from assessment and delineation activities.

PROPOSED SCHEDULE

Upon the notice of NMOCD approval of this SCRP, WPX will begin the proposed remediation activities outlined above and provide a report detailing completed remediation activities for Incident Numbers nAPP2317840368 and nAPP2322658221.

If you have any questions or comments, please do not hesitate to contact Anna Byers at (575) 200-6754 or anna@etechenv.com or Gilbert Moreno (832) 541-7719 or gilbert@etechenv.com. **Appendix B** provides correspondence email notification receipts associated with the subject release.

Sincerely,
Etech Environmental and Safety Solutions, Inc.



Gilbert Moreno
Project Geologist



Anna Byers
Senior Geologist

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

Appendices:

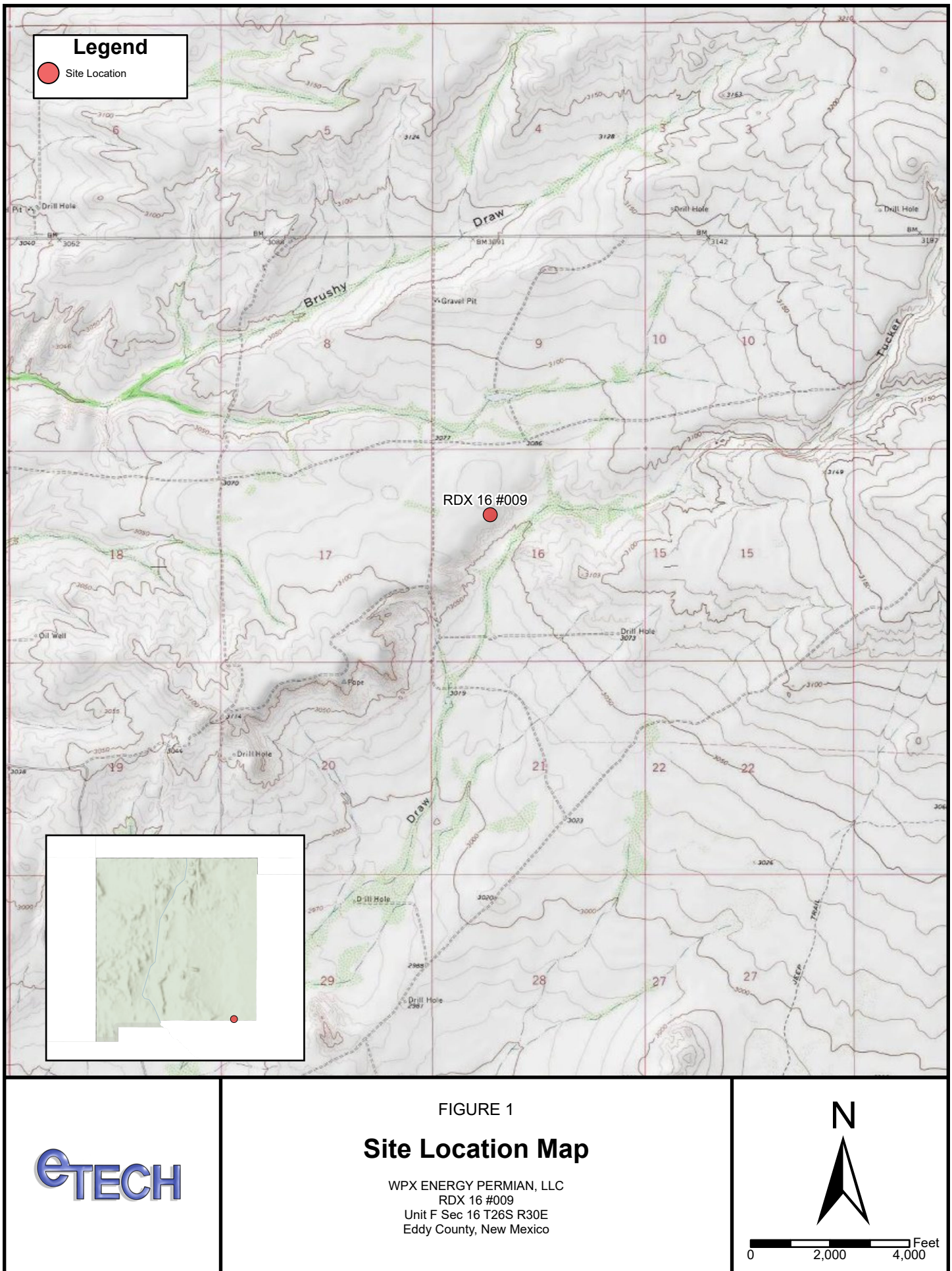
- Appendix A:** Figure 1: Site Map
Figure 1A: Site Characterization Map – Groundwater
Figure 1B: Site Characterization Map – Surficial Receptors
Figure 1C: Site Characterization Map – Subsurface Receptors
Figure 2: Delineation Soil Sample Locations
Figure 3: Proposed Excavation Extents
- Appendix B:** NMOCD Notifications
- Appendix C:** Referenced Well Records
- Appendix D:** Lithologic Sampling Logs
- Appendix E:** Photographic Log
- Appendix F:** Tables
- Appendix G:** Laboratory Analytical Reports & Chain-of-Custody Documentation

APPENDIX A

Figures

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





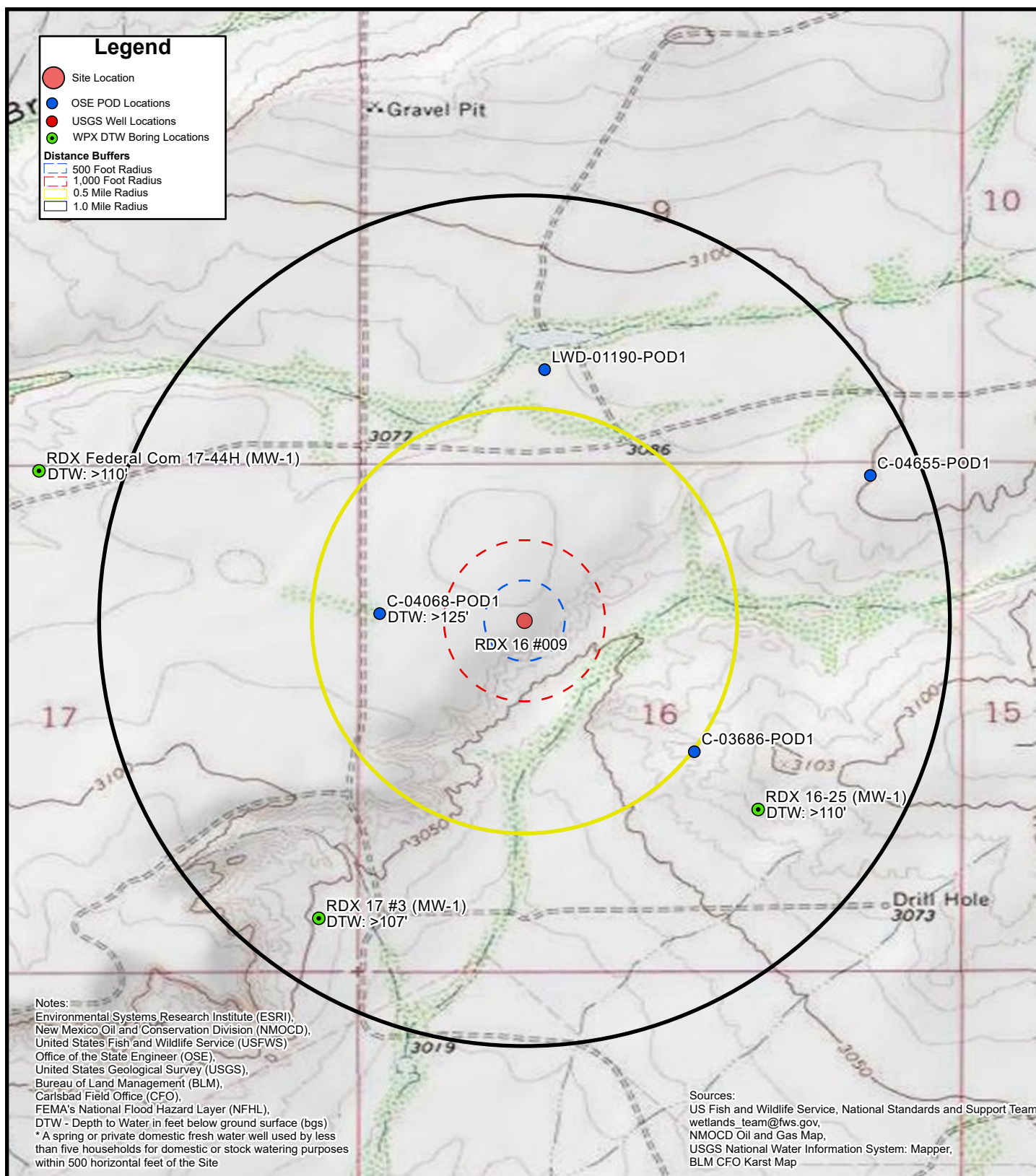
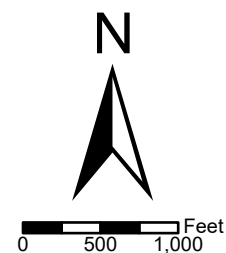


FIGURE 1A Site Characterization Map Ground Water

WPX ENERGY PERMIAN, LLC
 RDX 16 #009
 Unit F Sec 16 T26S R30E
 Eddy County, New Mexico



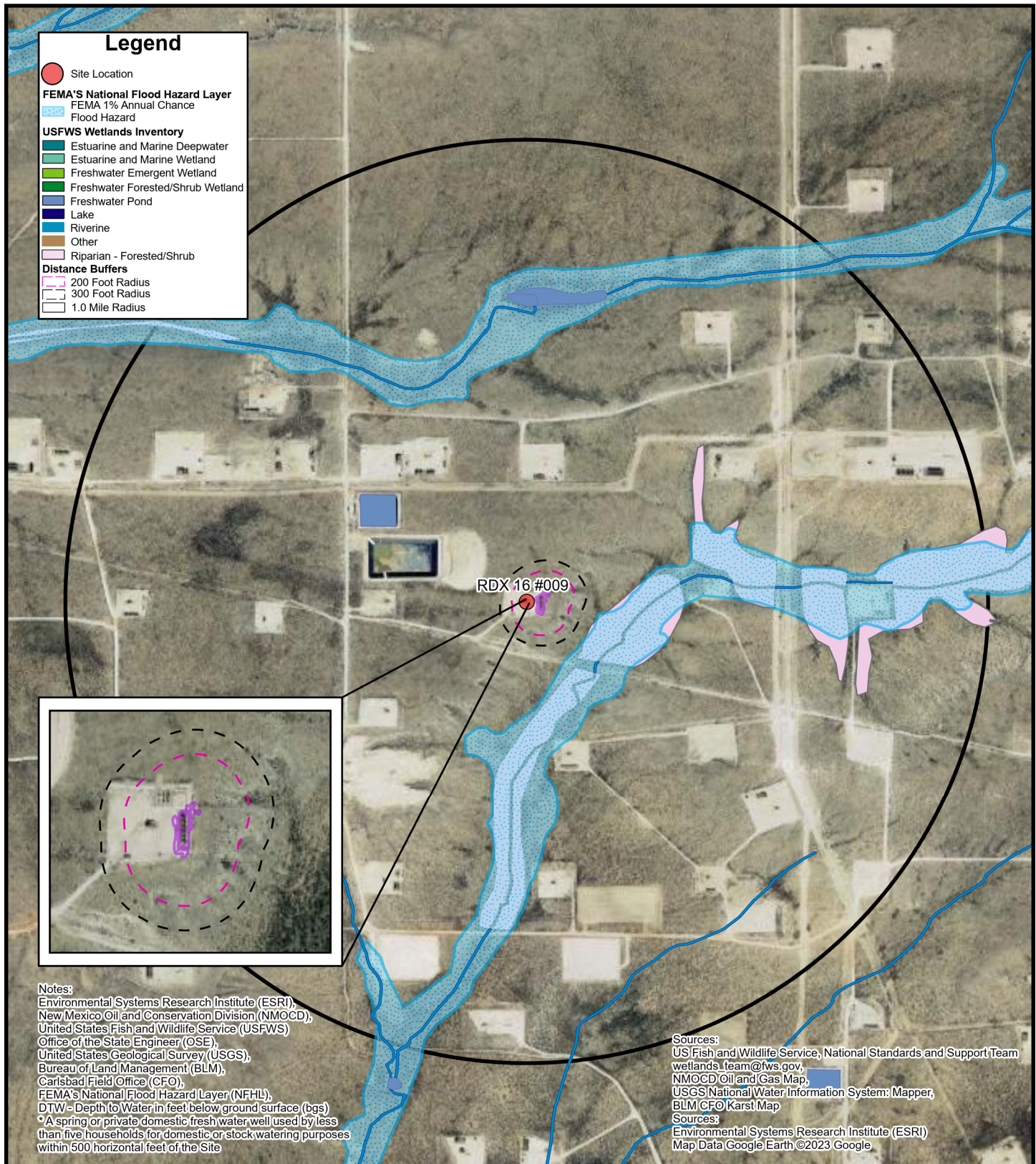
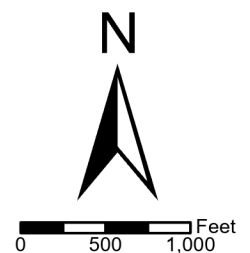
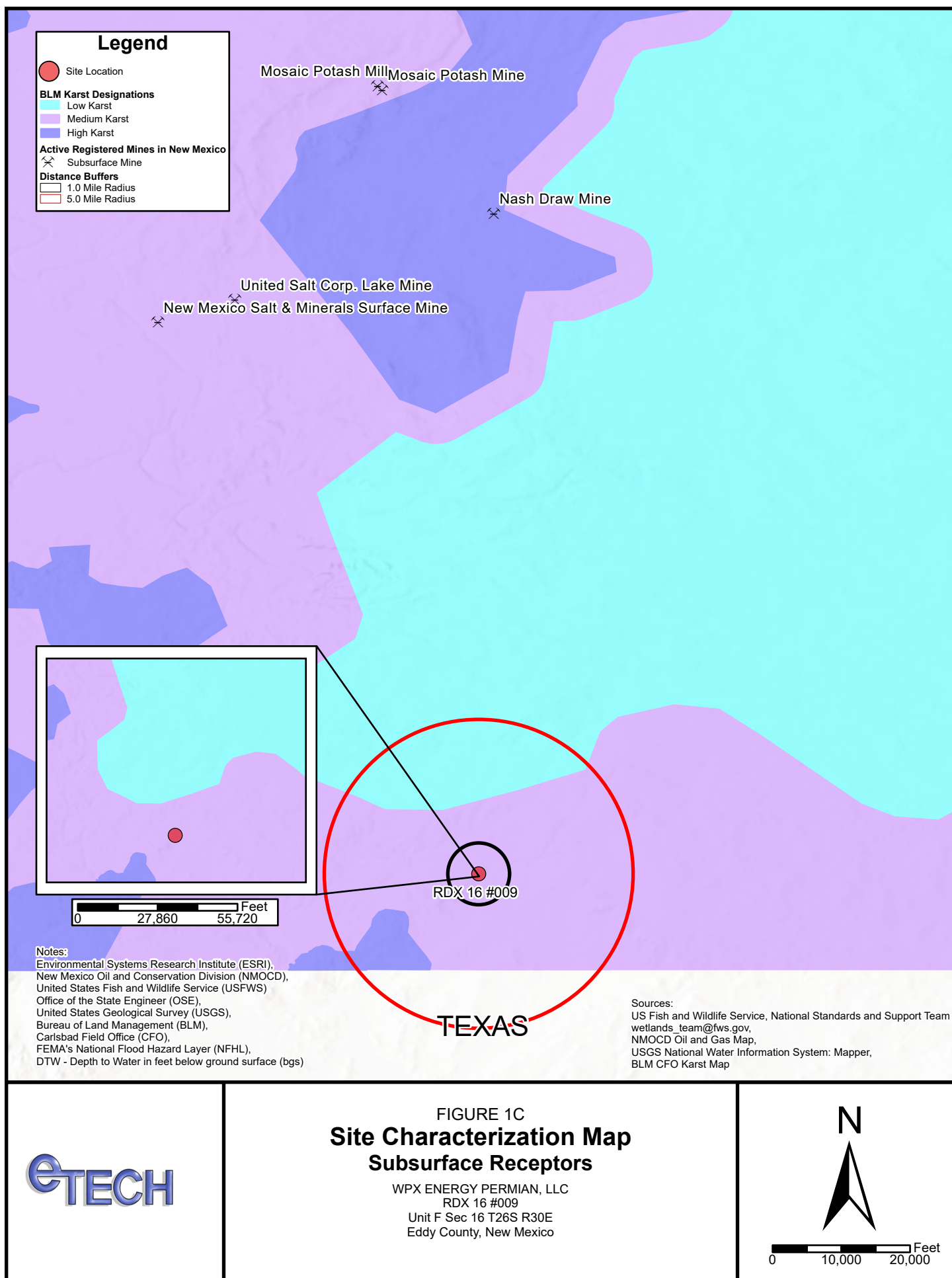


FIGURE 1B Site Characterization Map Surficial Receptors

WPX ENERGY PERMIAN, LLC
 RDX 16 #009
 Unit F Sec 16 T26S R30E
 Eddy County, New Mexico





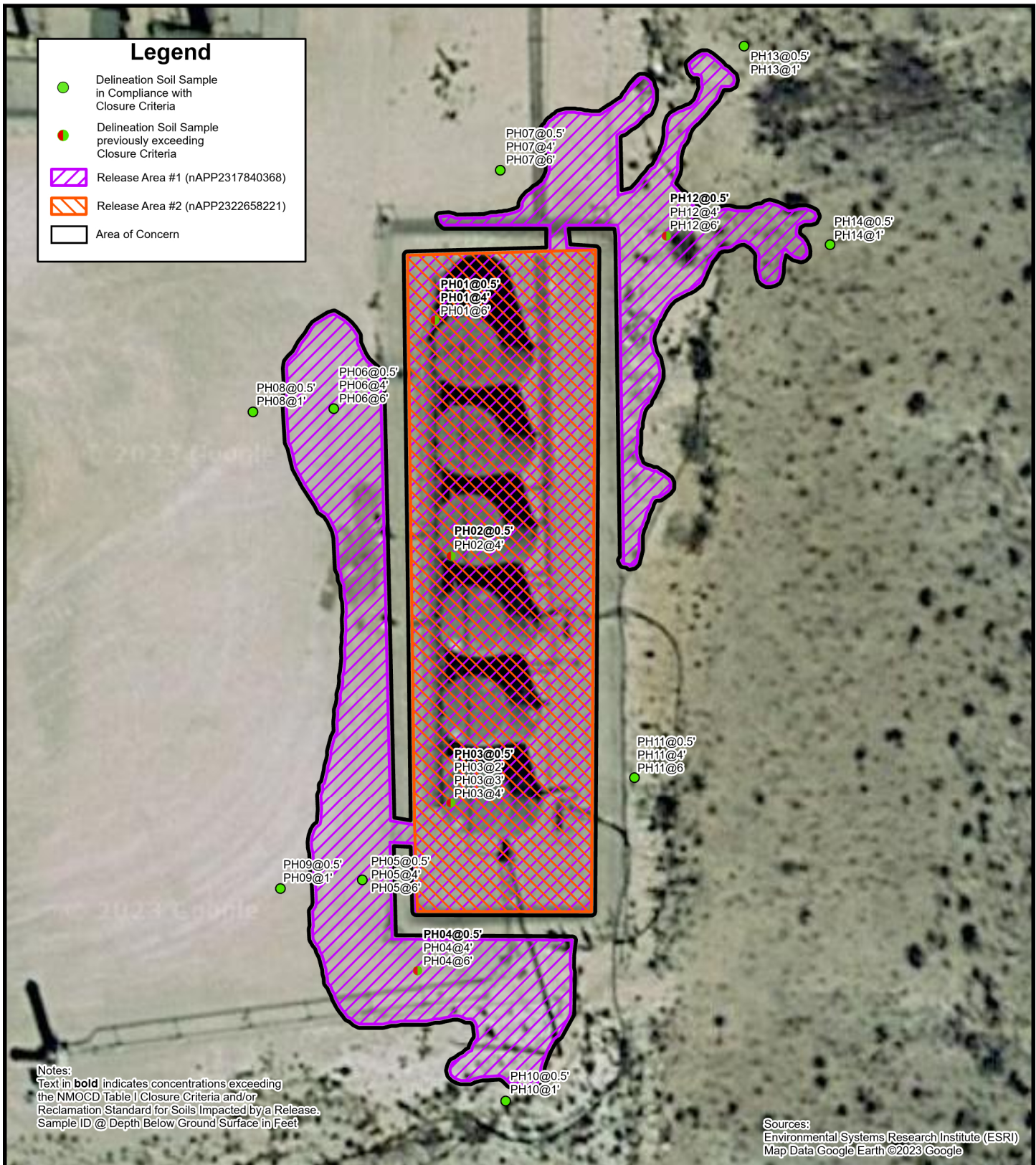
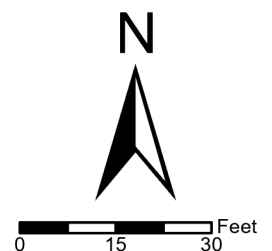


FIGURE 2

Delineation Soil Sample Locations

WPX ENERGY PERMIAN, LLC
RDX 16 #009
Unit F Sec 16 T26S R30E
Eddy County, New Mexico



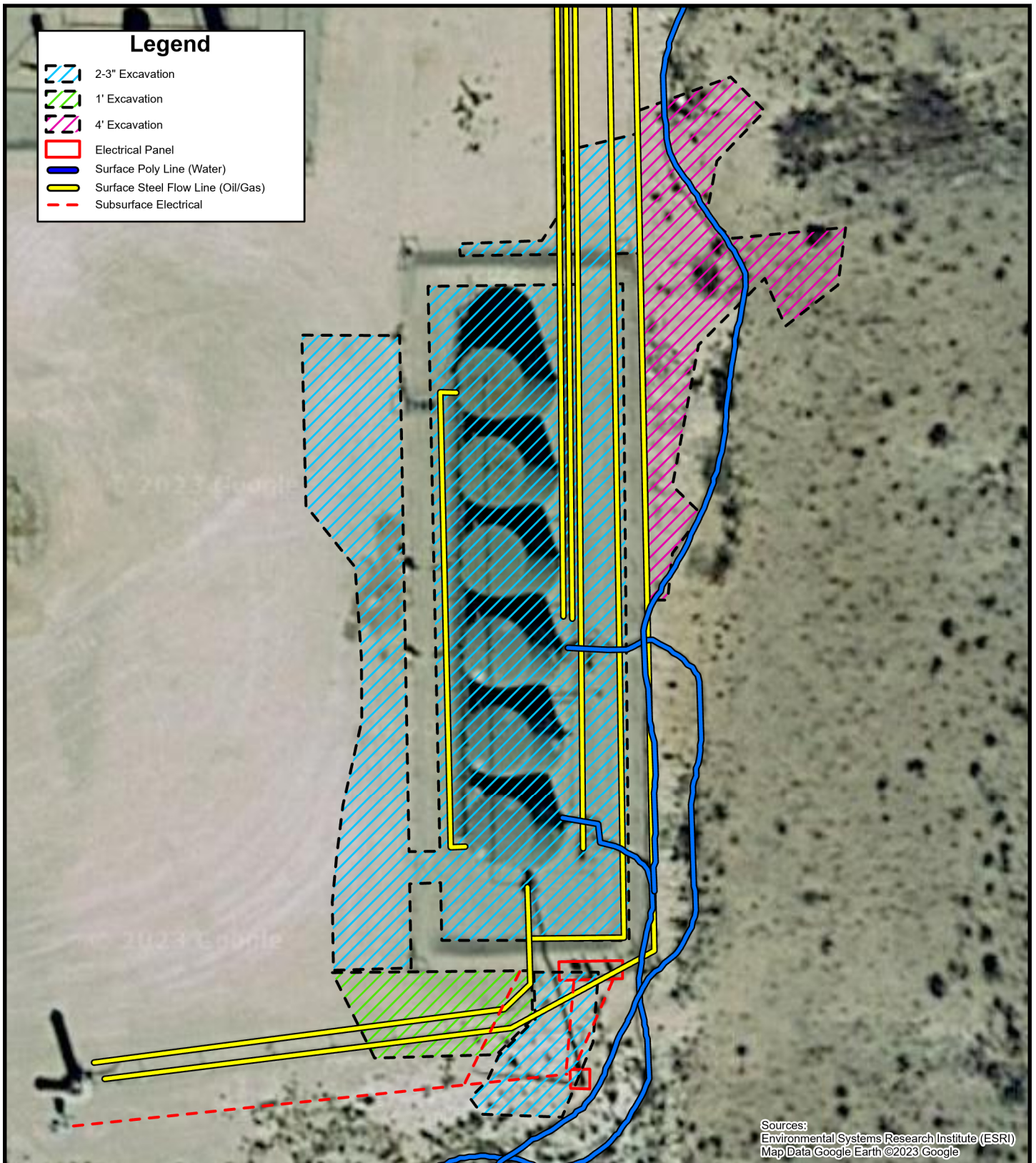
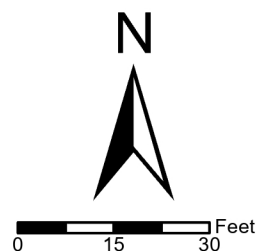


FIGURE 3

Proposed Excavation Extents

WPX ENERGY PERMIAN, LLC
RDX 16 #009
Unit F Sec 16 T26S R30E
Eddy County, New Mexico

eTECH



APPENDIX B

NMOCD Notifications

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



Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, September 21, 2023 2:24 PM
To: Raley, Jim
Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: (Extension Approval) - RDX 16-9H - nAPP2317840368 and nAPP2322658221

RE: Incident #**NAPP2317840368** and **NAPP2322658221**

Jim,

Your request for an extension to **December 23rd, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Raley, Jim <Jim.Raley@dvn.com>
Sent: Thursday, September 21, 2023 9:46 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Devon-Team <Devon-Team@etechemv.com>
Subject: [EXTERNAL] RDX 16-9H Extension Request - nAPP2322658221 and nAPP2322658221

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the RDX 16 #009 (Site).

A produced water release was discovered on June 26, 2023, and subsequently assigned Incident Number nAPP2317840368. Note: the date of discovery for this release on the initial C-141 is incorrect and will be updated on the Final C-141. A cultural survey was completed for the proposed work area in pasture soil to conduct delineation activities. Cultural is finalizing a report for State Land Office (SLO) and will be sent for review. An additional inadvertent release of produced water occurred on August 14, 2023 (nAPP2322658221) and overlapped the area impacted by nAPP2322658221, therefore additional investigation and planning are warranted to allow cultural and the State Land Office to provide additional clearance for corrective actions to address both incidents.

To provide enough time for additional planning, remediation activities and subsequent corrective action report, WPX requests an extension of the deadline for the two overlapping releases associated with Incident Number nAPP2317840368 and nAPP2322658221 to **December 23, 2023**.

Jim Raley | Environmental Professional - Permian Basin
5315 Buena Vista Dr., Carlsbad, NM 88220
C: (575)689-7597 | jim.raley@devon.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, October 11, 2023 5:15 PM
To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Hall, Brittany, EMNRD
Cc: Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

The OCD has received your notification. 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.

Thank you,

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: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 11, 2023 3:33 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov
Cc: Raley, Jim <jim.raley@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 16th through October 20th, 2023:

Proposed Date: October 16, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDU 34
Incident Number: nAPP2326833391
API: 30-015-41578

Proposed Date: October 17, 2023
Proposed Timeframe: 0800 – 1700 hrs.
Site Name: RDX Federal 21 #031
Incident Number: nAPP2326847671

API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, November 6, 2023 9:18 AM
To: Erick Herrera; eco@slo.state.nm.us
Cc: Raley, Jim; Devon-Team; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368) 6/26/2023 & (nAPP2322658221) 8/14/2023

Hi Erick,

The OCD has received your notification. 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.

Thank you,

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: Erick Herrera <erick@etechenv.com>
Sent: Monday, November 6, 2023 7:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us
Cc: Raley, Jim <jim.ralej@dmv.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] (WPX Site Sampling Notification) RDX 16 #009 (nAPP2317840368) 6/26/2023 & (nAPP2322658221) 8/14/2023

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between November 9, 2023 & November 10, 2023:

Site Name: RDX 16 #009
Proposed Timeframe: 0800 – 1700 hrs.
Incident Numbers: nAPP2317840368 & nAPP2322658221
API: 30-015-39752

Thank you,

Erick Herrera
Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

APPENDIX C

Referenced Well Records

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





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSEMBO, NEW MEXICO

2027 MAY 17 PM 1:58

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) C-4068 POD1				OSE FILE NUMBER(S) C-4068			
	WELL OWNER NAME(S) RKI Exploration and Production, LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 3500 One Williams Center MD 35,				CITY Tulsa		STATE OK	
					ZIP 74172			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 43.95 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
	LONGITUDE 103	53	39.23 W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW/4SW/4NW/4 Section 16, Township 26S, Range 30 E, N.M.P.M.								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 5/11/2017		DRILLING ENDED 5/12/2017		DEPTH OF COMPLETED WELL (FT) n/a		BORE HOLE DEPTH (FT) 125	
					DEPTH WATER FIRST ENCOUNTERED (FT) none encountered			
	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			
	DRILLING FLUID:		<input checked="" 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 with air rotary			
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	
	FROM	TO						
	0	125	±6.625	n/a	n/a	n/a	n/a	n/a
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)		LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	
	FROM	TO						
	n/a	n/a	n/a		n/a		n/a	n/a

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-4068	POD NUMBER	1	TRN NUMBER	606777
LOCATION	26S-30E-16-1-3-1			EXPL	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 10/29/2015)	
FILE NUMBER	C-4068	POD NUMBER	1
LOCATION	26S.30E-11e.1.3.1	TRN NUMBER	606777
		EXP1	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 606777
File Nbr: C 04068
Well File Nbr: C 04068 POD1

Jun. 12, 2017

JUSTIN BARMORE
RKI EXPLORATION AND PRODUCTION LLC
3500 ONE WILLIAMS CENTER MD 35
TULSA, OK 74172

Greetings:

The above numbered permit was issued in your name on 05/08/2017.

The Well Record was received in this office on 05/17/2017, stating that it had been completed on 05/12/2017, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/15/2018.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Dunaway".

Deborah Dunaway
(575) 622-6521

drywell

APPENDIX D

Lithologic Sampling Logs



Sample Name: PH01 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,400	51.7	No	PH01	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	9,232	6.4	No		0.5			
Dry	14,780	2.5	No		1	1		
Dry	14,780	0.4	No		2	2		
Dry	7,764	0.3	No	PH01	3	3		
Dry	708	0	No	PH01	4	4		
					5	5		
					6	6		

Total Depth



Sample Name: PH02

Date: 10/19/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 4'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,060	93	No	PH02	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	7,764	76	No		0.5			
Dry	18,384	0	No		1	1		
Dry	1,696	0	No		2	2		
Dry	1,584	0	No	PH02	3	3		
					4	4		

Total Depth



Sample Name: PH03

Date: 10/19/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 4'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	4,060	202.3	No	PH03	0 0.5	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	900	93.1	No		1	1		
Dry	188	8.2	No	PH03	2	2		
Dry	<112	3.8	No	PH03	3	3		
Dry	444	0.3	No	PH03	4	4		

Total Depth



Sample Name: PH04 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	26,960	0.4	No	PH04	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	7,764	0.2	No		0.5			
					1	1		
Dry	3,180	0	No		2	2		
						3		
Dry	592	0	No	PH04	4	4		
					5	5		
Dry	248	0	No	PH04	6	6		

Total Depth



Sample Name: PH05 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	14,780	0.5	No	PH05	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	6,576	0.3	No		0.5			
					1	1		
Dry	3,180	0	No		2	2		
						3		
Dry	140	0	No	PH05	4	4		
					5	5		
Dry	164	0	No	PH05	6	6		

Total Depth



Sample Name: PH06 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	10,068	0	No	PH06	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	900	0	No		0.5			
					1	1		
Dry	708	0	No		2	2		
						3		
Dry	<112	0	No	PH06	4	4		
					5	5		
Dry	164	0	No	PH06	6	6		

Total Depth



Sample Name: PH07 Date: 10/19/2023 & 11/09/2023
 Site Name: RDX 16 #009
 Incident Number: nAPP2317840368 & nAPP2322658221
 Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<112	0	No	PH07	0	0	CCHE	(0-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No		0.5			
					1	1		
Dry	<112	0	No		2	2		
						3		
Dry	<112	0	No	PH07	4	4		
					5	5		
Dry	<112	0	No	PH07	6	6		

Total Depth



Sample Name: PH08

Date: 10/19/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 1'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	396	0	No	PH08	0 0.5	0	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	216	0	No	PH08	1	1		

Total Depth



Sample Name: PH09

Date: 10/19/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 1'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	192	0	No	PH09	0 0.5	0	CCHE	(0-1') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No	PH09	1	1		

Total Depth



Sample Name: PH10

Date: 10/19/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Hand Auger

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 1'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<112	0	No	PH10	0 0.5	0 1	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (0.5-1cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH10	1	1		

Total Depth



Sample Name: PH11

Date: 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<112	0	No	PH11	0	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor. (1-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	<112	0	No		0.5			
					1	1	CCHE	
Dry	<112	0	No		2	2		
						3		
Dry	<112	0	No	PH11	4	4		
					5	5		
Dry	<112	0	No	PH11	6	6		

Total Depth



Sample Name: PH12

Date: 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200


Hole Diameter: N/A

Total Depth: 6'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	14,780	0	No	PH12	0	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor. (1-6') CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Dry	14,780	0	No		0.5			
Dry	14,780	0	No		1	1	CCHE	
Dry	14,780	0	No		2	2		
Dry	14,780	0	No			3		
Dry	14,780	0	No	PH12	4	4		
					5	5		
Dry	972	0	No	PH12	6	6		

Total Depth

					Sample Name: PH13		Date: 11/09/2023	
					Site Name: RDX 16 #009			
					Incident Number: nAPP2317840368 & nAPP2322658221			
					Job Number: 18134			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: EK		Method: Backhoe	
Site Coordinates: 32.0453507, -103.8899200					Hole Diameter: N/A		Total Depth: 1'	
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. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<112	0	No	PH13	0 0.5	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH13	1	1	CCHE	@ 1' CALICHE, dry, tan, fine to coarse grain, well graded, some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.
Total Depth								



Sample Name: PH14

Date: 11/09/2023

Site Name: RDX 16 #009

Incident Number: nAPP2317840368 & nAPP2322658221

Job Number: 18134

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: EK

Method: Backhoe

Site Coordinates: 32.0453507, -103.8899200

Hole Diameter: N/A

Total Depth: 1'

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<112	0	No	PH14	0 0.5	0	SW-SM	(0-1') SAND, dry, light brown, fine to coarse grain, well graded, some small gravel (1-2cm), trace silt, no stain, no odor.
Dry	<112	0	No	PH14	1	1	CCHE	@ 1' CALICHE, dry, tan, fine to coarse grain, well graded some small gravel (1-3cm), trace silt, poorly consolidated, no stain, no odor.

Total Depth

APPENDIX E

Photographic Log

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



**PHOTOGRAPHIC LOG**

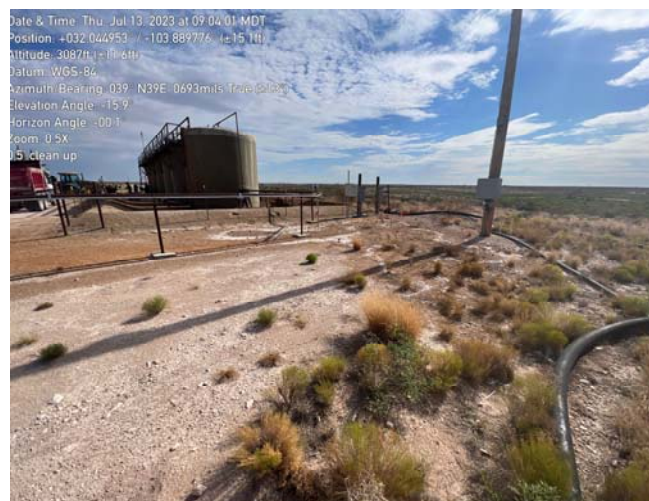
WPX Energy Permian, LLC

RDX 16 #009

nAPP2317840368 & nAPP2322658221

**Photograph 1****Date:06/27/2023**

Description: Southwestern view of release extent during site assessment activities.

**Photograph 2****Date:07/13/2023**

Description: Northeastern view of initial restoration activities on the pad surface.

**Photograph 3****Date:08/14/2023**

Description: Southeastern view of release extent during site assessment activities.

**Photograph 4****Date:10/19/2023**

Description: Northwestern view of delineation activities near PH01.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC

RDX 16 #009

nAPP2317840368 & nAPP2322658221

**Photograph 5****Date:10/19/2023**

Description: Southeastern view of delineation activities near PH03.

**Photograph 6****Date:10/19/2023**

Description: Southwestern view of delineation activities near PH04.

**Photograph 7****Date:11/09/2023**

Description: Southwestern view of delineation activities near PH12.

**Photograph 8****Date:11/09/2023**

Description: Southwestern view of delineation activities near PH14.

APPENDIX F

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #009
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
PH01	10/19/2023	0.5	<0.0250	0.0335	<20.0	4,050	1,940	4,050	5,990	4,760
PH01	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23,300
PH01	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	482
PH02	10/19/2023	0.5	<0.0250	<0.0500	69.7	5,870	2,280	5,940	8,220	5,060
PH02	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,440
PH03	10/19/2023	0.5	<0.0250	3.47	133	18,200	7,160	18,300	25,500	4,840
PH03	10/19/2023	2	<0.0250	<0.0500	<20.0	33.7	<50.0	33.7	33.7	236
PH03	10/19/2023	3	<0.0250	<0.0500	<20.0	25.2	<50.0	25.2	25.2	37.8
PH03	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	489.0
PH04	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25,200
PH04	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
PH04	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
PH05	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	17,700
PH05	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	155
PH05	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
PH06	10/19/2023	0.5	<0.0250	<0.0500	<20.0	32.0	<50.0	32.0	32.0	11,600
PH06	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.9
PH06	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
PH07	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.4
PH07	10/19/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.5
PH07	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	31.9
PH08	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
PH08	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
PH09	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
PH09	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.7
PH10	10/19/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
PH10	10/19/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	25.2
PH11	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
PH11	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH11	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
WPX Energy Permian, LLC
RDX 16 #009
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Numbers nAPP2317840368 & nAPP2322658221										
PH12	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,400
PH12	11/09/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,700
PH12	11/09/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	960
PH13	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.7
PH13	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
PH14	11/09/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
PH14	11/09/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

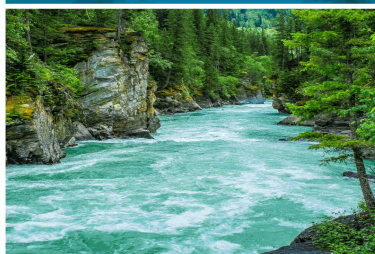
Notes:
 bgs: below ground surface
 mg/kg: milligrams per kilogram
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 ORO: Oil Range Organics
 TPH: Total Petroleum Hydrocarbon
 NMOCD: New Mexico Oil Conservation Division
 NMAC: New Mexico Administrative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

APPENDIX G

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310209

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310209
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH01 0.5'	5
PH01 4'	6
PH02 0.5'	7
PH02 4'	8
QC Summary Data	9
QC - Volatile Organic Compounds by EPA 8260B	9
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E310209-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH01 4'	E310209-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 0.5'	E310209-03A	Sludge	10/19/23	10/23/23	Glass Jar, 2 oz.
PH02 4'	E310209-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:09:04PM

PH01 0.5'

E310209-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	0.0335	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	0.0335	0.0250	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	70-130	10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	4050	250	10	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	1940	500	10	10/23/23	10/25/23	
<i>Surrogate: n-Nonane</i>		88.1 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	4760	40.0	2	10/25/23	10/27/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:09:04PM

PH01 4'

E310209-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		98.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	23300	1000	50	10/25/23	10/27/23	



Sample Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/2023 2:09:04PM
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

PH02 0.5'

E310209-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343025	
Gasoline Range Organics (C6-C10)	69.7	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343027	
Diesel Range Organics (C10-C28)	5870	125	5	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	2280	250	5	10/23/23	10/25/23	
Surrogate: n-Nonane		87.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	5060	100	5	10/25/23	10/27/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:09:04PM

PH02 4'

E310209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Benzene	ND	0.0250	1	10/24/23	10/26/23	
Ethylbenzene	ND	0.0250	1	10/24/23	10/26/23	
Toluene	ND	0.0250	1	10/24/23	10/26/23	
o-Xylene	ND	0.0250	1	10/24/23	10/26/23	
p,m-Xylene	ND	0.0500	1	10/24/23	10/26/23	
Total Xylenes	ND	0.0250	1	10/24/23	10/26/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2343044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/24/23	10/26/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		10/24/23	10/26/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2343042	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/24/23	
<i>Surrogate: n-Nonane</i>						
	91.4 %	50-200		10/24/23	10/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2343072	
Chloride	2440	40.0	2	10/25/23	10/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Volatile Organics by EPA 8021B

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 (2343044-BLK1) Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

LCS (2343044-BS1) Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	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	7.68		8.00		96.1	70-130			

Matrix Spike (2343044-MS1) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.30	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.22	0.0250	5.00	ND	104	61-133			
Toluene	5.29	0.0250	5.00	ND	106	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2343044-MSD1) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Benzene	5.44	0.0250	5.00	ND	109	54-133	2.60	20	
Ethylbenzene	5.37	0.0250	5.00	ND	107	61-133	2.77	20	
Toluene	5.43	0.0250	5.00	ND	108	61-130	2.59	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.73	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	2.61	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	2.65	20	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343044-BLK1) Prepared: 10/24/23 Analyzed: 10/26/23

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

LCS (2343044-BS2) Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2343044-MS2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

Matrix Spike Dup (2343044-MSD2) Source: E310226-02 Prepared: 10/24/23 Analyzed: 10/26/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	1.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343042-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:09:04PM

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 (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:09

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

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

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



Client: WPX Energy Permian, LLC.					Bill To					Lab Use Only					TAT			EPA Program					
Project: RDX 16 #009					Attention: Jim Raley					Lab WO# E 310209					Job Number 01058-0057			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.					Analysis and Method					5 day TAT								
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220																		
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502																	RCRA	
Phone: 832-541-7719					Email: jlm.raley@dvn.com																		
Email: Devon-team@etechnv.com					WO: 21191055																		
					Incident ID: nAPP2322658221, nAPP2317840368																		
Collected by: Edyte Konan																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH G80/D80/200 by 80/15	BTEX by 80/15	VOC by 82/60	Metals 60/10	Chloride 300.0	BGDOC NM	GDGC TX	Remarks									
9:00	10.19.23	S	1	PH01	1	0.5'						X											
9:10	10.19.23	S	1	PH01	2	4'						X											
9:20	10.19.23	S	1	PH02	3	0.5'						X											
9:30	10.19.23	S	1	PH02	4	4'						X											
10/20/2023																							
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM																							
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only											
[Signature]		10/20/23		10:45		Michelle Gonzales		10-20-23		1045		Received on ice: (Y) N											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3											
Michelle Gonzales		10-20-23		1700		Cathy Man		10-23-23		8:15													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																							
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 1:01:52PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310209
Phone:	(539) 573-4018	Date Logged In:	10/23/23 10:31	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

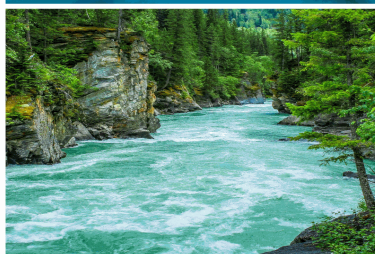
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310203

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310203
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 0.5'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 0.5'	E310203-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:13:05AM

PH03 0.5'

E310203-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	0.790	0.0250	1	10/23/23	10/25/23	
Toluene	0.226	0.0250	1	10/23/23	10/25/23	
o-Xylene	2.03	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	0.424	0.0500	1	10/23/23	10/25/23	
Total Xylenes	2.45	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	114 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	133	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	103 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	114 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	18200	1250	50	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	7160	2500	50	10/23/23	10/24/23	
Surrogate: n-Nonane	127 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	4840	40.0	2	10/24/23	10/24/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:13:05AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:13

- 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 Analytical Laboratory

Printed: 10/23/2023 12:42:26PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310203
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:13	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

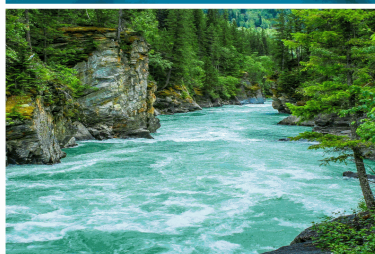
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310206

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310206
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 2'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 2'	E310206-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:20:28AM

PH03 2'

E310206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.6 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	109 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	33.7	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane	86.6 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	236	20.0	1	10/24/23	10/24/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:20:28AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:20

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

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

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





envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:53:29PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310206
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:17	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

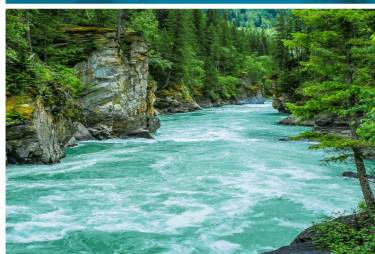
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310205

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310205
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 3'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 3'	E310205-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:17:33AM

PH03 3'

E310205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		112 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	25.2	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	37.8	20.0	1	10/24/23	10/24/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:17:33AM

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 (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:17

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

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

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



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only				TAT				EPA Program				
Project: RDX 16 #009					Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E310205		01058-0007					5 day TAT					
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method											RCRA	
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX	State				
Phone: 832-541-7719					Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: Devon-team@etechnv.com					WO: 21191055														
					Incident ID: nAPP2322658221, nAPP2317840368														
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number										Remarks				
10:00	10.19.23	S	1	PH03	1	3'							X						
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		10/20/23	10:45	Michelle Gonzales		10-20-23	1045	Received on ice: <input checked="" type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Michelle Gonzales		10-20-23	1700	Cynthia Mar		10-23-23	8:15												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:47:38PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310205
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:16	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

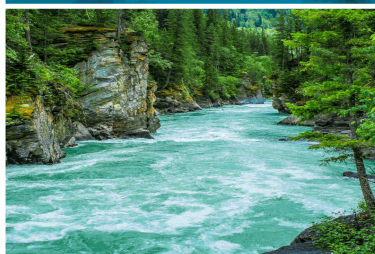
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310215

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310215
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
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Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Alexa Michaels
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 4'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 4'	E310215-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:11:18PM

PH03 4'

E310215-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100 %	70-130		10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>	99.1 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343042
Diesel Range Organics (C10-C28)	ND	25.0	1	10/24/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/24/23	10/24/23	
<i>Surrogate: n-Nonane</i>	96.5 %	50-200		10/24/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	489	40.0	2	10/25/23	10/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

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 (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

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	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1)

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

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 (2343025-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2)

Source: E310207-01

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343042-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.2		50.0		96.3	50-200			

LCS (2343042-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

Matrix Spike (2343042-MS1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			

Matrix Spike Dup (2343042-MSD1)					Source: E310238-02		Prepared: 10/24/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	6.50	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:11:18PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:11

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



Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program							
Project: RDX 16 #009				Attention: Jim Raley				Lab WO# E310215				Job Number 01058-0007				1D 2D 3D Standard CWA SDWA							
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				Analysis and Method				5 day TAT				RCRA							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Depth (ft.) TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM GDGC TX				State NM CO UT AZ TX				Remarks							
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502																			
Phone: 832-541-7719				Email: jim.raley@dmv.com																			
Email: Devon-team@etechnv.com				WO: 21191055																			
Incident ID: nAPP2322658221, nAPP2317840368																							
Collected by: Edyte Konan																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX										
10:10	10.19.23	S	1	PH03	1	4'							X										
<div>10/20/2023</div>																							
Additional Instructions:																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.											
Relinquished by: (Signature) <i>[Signature]</i>				Date 10/20/23		Time		Received by: (Signature) <i>Michelle Gonzales</i>				Date 10-20-23		Time 1045		Lab Use Only							
Relinquished by: (Signature) <i>Michelle Gonzales</i>				Date 10-20-23		Time 1700		Received by: (Signature) <i>Carth Moore</i>				Date 10-23-23		Time 8:15		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							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



Envirotech Analytical Laboratory

Printed: 10/23/2023 12:38:26PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310215
Phone:	(539) 573-4018	Date Logged In:	10/23/23 12:36	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

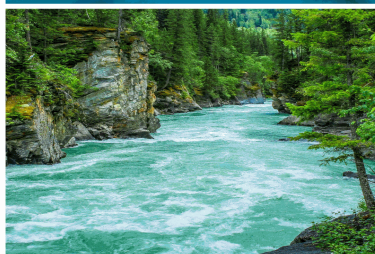
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310204

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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

Date Reported: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310204
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH04 0.5'	5
PH04 4'	6
PH05 0.5'	7
PH05 4'	8
PH06 0.5'	9
PH06 4'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/23 10:15
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 0.5'	E310204-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH04 4'	E310204-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 0.5'	E310204-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH05 4'	E310204-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 0.5'	E310204-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH06 4'	E310204-06A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH04 0.5'

E310204-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	108 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	102 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	108 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane	87.6 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	25200	1000	50	10/24/23	10/24/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH04 4'

E310204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane	87.3 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	1620	40.0	2	10/24/23	10/24/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH05 0.5'

E310204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130		10/23/23	10/25/23	
Surrogate: Toluene-d8	112 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane	86.9 %	50-200		10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	17700	1000	50	10/24/23	10/24/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH05 4'

E310204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		100 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/24/23	
Surrogate: n-Nonane		88.4 %	50-200	10/23/23	10/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	155	20.0	1	10/24/23	10/24/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH06 0.5'

E310204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	32.0	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		81.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	11600	400	20	10/24/23	10/24/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 10:15:36AM

PH06 4'

E310204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		101 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		109 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.8 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343043
Chloride	98.9	20.0	1	10/24/23	10/24/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343027-BLK1)

Prepared: 10/23/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)

Prepared: 10/23/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)

Source: E310204-06 Prepared: 10/23/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)

Source: E310204-06 Prepared: 10/23/23 Analyzed: 10/24/23

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 10:15:36AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343043-BLK1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2343043-BS1)					Prepared: 10/24/23 Analyzed: 10/24/23				
Chloride	230	20.0	250		92.1	90-110			
Matrix Spike (2343043-MS1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	743	200	250	542	80.4	80-120			
Matrix Spike Dup (2343043-MSD1)					Source: E310238-03		Prepared: 10/24/23 Analyzed: 10/24/23		
Chloride	728	200	250	542	74.1	80-120	2.13	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 10:15

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley				Lab WO# E310204				Job Number 01058-0007				1D 2D 3D Standard CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.								5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method								RCRA			
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502															
Phone: 832-541-7719				Email: jlm.raley@dmv.com												State			
Email: Devon-team@etechnv.com				WO: 21191055												NM CO UT AZ TX			
				Incident ID: nAPP2322658221, nAPP2317840368															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	XL GDOC	Remarks					
10:20	10.19.23	S	1	PH04	1	0.5'						X							
10:30	10.19.23	S	1	PH04	2	4'						X							
10:40	10.19.23	S	1	PH05	3	0.5'						X							
10:50	10.19.23	S	1	PH05	4	4'						X							
11:00	10.19.23	S	1	PH06	5	0.5'						X							
11:10	10.19.23	S	1	PH06	6	4'						X							
10/20/2023																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<i>[Signature]</i>		10/20/23		10:45		Michelle Gonzales		10-20-23		1045		Received on ice: Y / N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Michelle Gonzales		10-20-23		1700		Cathy Ma		10/23/23		8:15									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C							
												4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:45:33PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310204
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:14	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

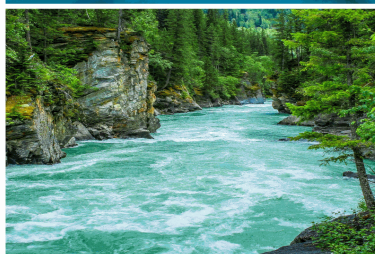
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310208

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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

Date Reported: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310208
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH07 0.5'	5
PH07 4'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported: 10/27/23 14:07
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 0.5'	E310208-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH07 4'	E310208-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:07:32PM

PH07 0.5'

E310208-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>	98.8 %	70-130		10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>	98.8 %	70-130		10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>	110 %	70-130		10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
<i>Surrogate: n-Nonane</i>	88.2 %	50-200		10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	55.4	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:07:32PM

PH07 4'

E310208-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		110 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		90.9 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	28.5	20.0	1	10/25/23	10/27/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

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 (2343024-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.69	0.0250	2.50		107	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.25	0.0500	5.00		105	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			

Matrix Spike (2343024-MS1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.4	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

Matrix Spike Dup (2343024-MSD1) Source: E310202-02 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	5.10	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.4	45-135	5.38	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	6.15	24	
o-Xylene	2.32	0.0250	2.50	ND	92.6	43-135	7.10	27	
p,m-Xylene	4.71	0.0500	5.00	ND	94.2	43-135	6.24	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	6.53	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

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 (2343024-BLK1)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

LCS (2343024-BS2)

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	58.5	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			

Matrix Spike (2343024-MS2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2343024-MSD2)

Source: E310202-02

Prepared: 10/23/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130	1.03	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:07:32PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:07

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT			EPA Program																			
Project: RDX 16 #009					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA																	
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E310208		0058 0007							5 day TAT																			
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method											RCRA																	
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State																				
Phone: 832-541-7719					Email: jim.raley@dv.com										NM	CO	UT	AZ	TX																
Email: Devon-team@etechnv.com					WO: 21191055																														
Incident ID: nAPP2322658221, nAPP2317840368																																			
Collected by: Edyte Konan																																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks																		
11:20	10.19.23	S	1	PH07	1	0.5'							X																						
11:30	10.19.23	S	1	PH07	2	4'							X																						
10/20/2023																																			
Additional Instructions:																																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM																																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																											
[Signature]		10/20/23	10:45	Michelle Gonzales		10-20-23	1045	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N																											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____																											
Michelle Gonzales		10-20-23	1700	Curtis Man		10-23-23	8:15																												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>																											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																			


envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 1:00:26PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310208
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:20	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

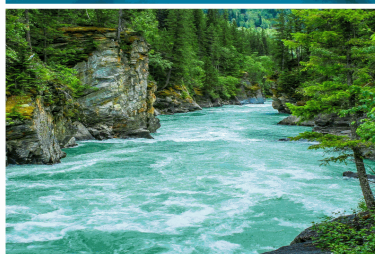
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E310207

Job Number: 01058-0007

Received: 10/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/27/23

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: 10/27/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E310207
Date Received: 10/23/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/23/2023 8:15:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH08 0.5'	5
PH08 1'	6
PH09 0.5'	7
PH09 1'	8
PH10 0.5'	9
PH10 1'	10
QC Summary Data	11
QC - Volatile Organic Compounds by EPA 8260B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH08 0.5'	E310207-01A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH08 1'	E310207-02A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 0.5'	E310207-03A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH09 1'	E310207-04A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 0.5'	E310207-05A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.
PH10 1'	E310207-06A	Soil	10/19/23	10/23/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH08 0.5'

E310207-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/23/23	10/25/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	10/23/23	10/25/23	
<i>Surrogate: Toluene-d8</i>		99.8 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
<i>Surrogate: n-Nonane</i>		87.9 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	259	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH08 1'

E310207-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		92.7 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	111	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH09 0.5'

E310207-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		99.7 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		85.4 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	159	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH09 1'

E310207-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		100 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		96.4 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	24.7	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH10 0.5'

E310207-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		102 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		91.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	157	20.0	1	10/25/23	10/26/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
10/27/2023 2:05:24PM

PH10 1'

E310207-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Benzene	ND	0.0250	1	10/23/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/23/23	10/25/23	
Toluene	ND	0.0250	1	10/23/23	10/25/23	
o-Xylene	ND	0.0250	1	10/23/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/23/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2343025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/23/23	10/25/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/23/23	10/25/23	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	10/23/23	10/25/23	
Surrogate: Toluene-d8		101 %	70-130	10/23/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2343027
Diesel Range Organics (C10-C28)	ND	25.0	1	10/23/23	10/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/23/23	10/25/23	
Surrogate: n-Nonane		86.3 %	50-200	10/23/23	10/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2343072
Chloride	25.2	20.0	1	10/25/23	10/26/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2343025-BLK1) Prepared: 10/23/23 Analyzed: 10/25/23

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	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS1) Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.19	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.2	70-130			
Toluene	2.16	0.0250	2.50		86.3	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.65	0.0250	7.50		88.7	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2343025-MS1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.38	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.35	0.0250	2.50	ND	94.0	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.6	43-135			
p,m-Xylene	4.75	0.0500	5.00	ND	94.9	43-135			
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2343025-MSD1) Source: E310207-01 Prepared: 10/23/23 Analyzed: 10/25/23

Benzene	2.30	0.0250	2.50	ND	91.9	48-131	3.36	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135	1.97	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	1.63	24	
o-Xylene	2.40	0.0250	2.50	ND	96.0	43-135	0.644	27	
p,m-Xylene	4.70	0.0500	5.00	ND	94.1	43-135	0.910	27	
Total Xylenes	7.10	0.0250	7.50	ND	94.7	43-135	0.820	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

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 (2343025-BLK1)					Prepared: 10/23/23 Analyzed: 10/25/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

LCS (2343025-BS2)					Prepared: 10/23/23 Analyzed: 10/25/23				
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.3	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2343025-MS2)					Source: E310207-01	Prepared: 10/23/23 Analyzed: 10/25/23			
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2343025-MSD2)					Source: E310207-01	Prepared: 10/23/23 Analyzed: 10/25/23			
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.35	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

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 (2343027-BLK1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			

LCS (2343027-BS1)					Prepared: 10/23/23 Analyzed: 10/24/23				
Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

Matrix Spike (2343027-MS1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2343027-MSD1)					Source: E310204-06		Prepared: 10/23/23 Analyzed: 10/24/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132	6.88	20	
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/2023 2:05:24PM

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 (2343072-BLK1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	ND	20.0							
LCS (2343072-BS1)					Prepared: 10/25/23 Analyzed: 10/26/23				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2343072-MS1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	364	20.0	250	96.3	107	80-120			
Matrix Spike Dup (2343072-MSD1)					Source: E310202-01		Prepared: 10/25/23 Analyzed: 10/26/23		
Chloride	368	20.0	250	96.3	109	80-120	0.938	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:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/27/23 14:05

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley				Lab WO#				1D 2D 3D Standard				CWA SDWA			
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E36207 01058-0007				5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method								RCRA			
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502												State			
Phone: 832-541-7719				Email: jim.raley@dmv.com												NM CO UT AZ TX			
Email: Devon-team@etechnv.com				WO: 21191055															
				Incident ID: nAPP2322658221, nAPP2317840368															
Collected by: Edyte Konan																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	GDGC TX	Remarks					
11:40	10.19.23	S	1	PH08	1	0.5'						X							
11:50	10.19.23	S	1	PH08	2	1'						X							
12:00	10.19.23	S	1	PH09	3	0.5'						X							
12:10	10.19.23	S	1	PH09	4	1'						X							
12:20	10.19.23	S	1	PH10	5	0.5'						X							
12:30	10.19.23	S	1	PH10	6	1'						X							
10/20/2023																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
<i>[Signature]</i>		10/20/23		10:45		Michelle Gonzales		10-20-23		1045		Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
Michelle Gonzales		10-20-23		1700		Cathy Mon		10-23-23		8:15									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


envirotech

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:58:03PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	10/23/23 08:15	Work Order ID:	E310207
Phone:	(539) 573-4018	Date Logged In:	10/23/23 09:18	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/27/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Envirotech Analytical Laboratory

Printed: 10/23/2023 12:58:03PM

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.

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Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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Sample Cooler

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Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311103

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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

Date Reported: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311103
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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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

Table of Contents

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

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 6'	E311103-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04108-0639
Project Manager: Gilbert Moreno

Reported:
11/22/2023 1:02:38PM

PH01 6'

E311103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	96.1 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	482	20.0	1	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Volatile Organics by EPA 8021B

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 (2346097-BLK1)

Prepared: 11/16/23 Analyzed: 11/17/23

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	7.80		8.00		97.6	70-130			

LCS (2346097-BS1)

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130			

Matrix Spike (2346097-MS1)

Source: E311115-22

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.28	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	7.97		8.00		99.7	70-130			

Matrix Spike Dup (2346097-MSD1)

Source: E311115-22

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	1.82	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	1.81	20	
Toluene	5.19	0.0250	5.00	ND	104	61-130	2.07	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	1.91	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.03	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	1.99	20	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

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 (2346097-BLK1) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2346097-BS2) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

Matrix Spike (2346097-MS2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2346097-MSD2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	5.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346075-BLK1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			

LCS (2346075-BS1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2346075-MS1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			

Matrix Spike Dup (2346075-MSD1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 1:02:38PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 13:02

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

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

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



Project Information

Chain of Custody

Page 1 of 1

04108-0639

Client: WPX Energy Permian, LLC. Project: RDX 16 #009 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechnv.com				Bill To				Lab Use Only				TAT				EPA Program			
				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
				Address: 5315 Buena Vista Dr.				E311103		01068-0007		5 day TAT							
				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method								RCRA			
				Phone: 575-885-7502															
Email: jim.raley@dmv.com				Depth (ft.)	TPH GAO/DRO/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX GDOC	State							
WO: 21191055												NM	CO	UT	AZ	TX			
Incident ID: nAPP2322658221, nAPP2317840368																			
Collected by: Edyte Konan				Lab Number	Depth (ft.)	TPH GAO/DRO/ORD by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	TX GDOC	Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID															
10:00	11.09.23	S	1	PH01		6'					X								
11/10/2023																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:32:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311103
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:03	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

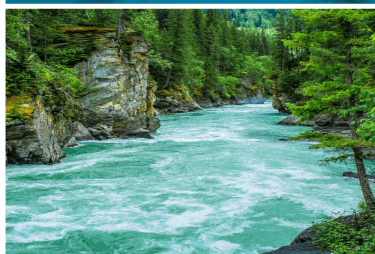
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311104

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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

Date Reported: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311104
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH04 6'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04 6'	E311104-01A	Soil	11/18/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04108-0639
Project Manager: Gilbert Moreno

Reported:
11/22/2023 10:13:17AM

PH04 6'

E311104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2347012
Benzene	ND	0.0250	1	11/20/23	11/20/23	
Ethylbenzene	ND	0.0250	1	11/20/23	11/20/23	
Toluene	ND	0.0250	1	11/20/23	11/20/23	
o-Xylene	ND	0.0250	1	11/20/23	11/20/23	
p,m-Xylene	ND	0.0500	1	11/20/23	11/20/23	
Total Xylenes	ND	0.0250	1	11/20/23	11/20/23	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		11/20/23	11/20/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.7 %	70-130		11/20/23	11/20/23	
<i>Surrogate: Toluene-d8</i>	109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2347012
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/23	11/20/23	
<i>Surrogate: Bromofluorobenzene</i>	99.5 %	70-130		11/20/23	11/20/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.7 %	70-130		11/20/23	11/20/23	
<i>Surrogate: Toluene-d8</i>	109 %	70-130		11/20/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2347018
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/23	11/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/23	11/20/23	
<i>Surrogate: n-Nonane</i>	153 %	50-200		11/20/23	11/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2347005
Chloride	299	20.0	1	11/20/23	11/20/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2347012-BLK1)

Prepared: 11/20/23 Analyzed: 11/20/23

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		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

LCS (2347012-BS1)

Prepared: 11/20/23 Analyzed: 11/20/23

Benzene	2.65	0.0250	2.50		106	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.16	0.0500	5.00		103	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike (2347012-MS1)

Source: E311148-01

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135			
Toluene	2.74	0.0250	2.50	ND	109	48-130			
o-Xylene	2.57	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.16	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike Dup (2347012-MSD1)

Source: E311148-01

Prepared: 11/20/23 Analyzed: 11/21/23

Benzene	2.56	0.0250	2.50	ND	102	48-131	3.83	23	
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	2.58	27	
Toluene	2.68	0.0250	2.50	ND	107	48-130	2.05	24	
o-Xylene	2.51	0.0250	2.50	ND	100	43-135	2.48	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	2.08	27	
Total Xylenes	7.57	0.0250	7.50	ND	101	43-135	2.22	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347012-BLK1)

Prepared: 11/20/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

LCS (2347012-BS2)

Prepared: 11/20/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike (2347012-MS2)

Source: E311148-01

Prepared: 11/20/23 Analyzed: 11/21/23

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			

Matrix Spike Dup (2347012-MSD2)

Source: E311148-01

Prepared: 11/20/23 Analyzed: 11/21/23

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	0.678	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.555		0.500		111	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347018-BLK1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.9		50.0		114	50-200			

LCS (2347018-BS1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	53.6		50.0		107	50-200			

Matrix Spike (2347018-MS1)					Source: E311152-22		Prepared: 11/20/23 Analyzed: 11/20/23		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike Dup (2347018-MSD1)					Source: E311152-22		Prepared: 11/20/23 Analyzed: 11/20/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	1.09	20	
Surrogate: n-Nonane	57.1		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:13:17AM

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 (2347005-BLK1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Chloride	ND	20.0							
LCS (2347005-BS1)					Prepared: 11/20/23 Analyzed: 11/20/23				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2347005-MS1)					Source: E311137-02		Prepared: 11/20/23 Analyzed: 11/20/23		
Chloride	9930	400	250	10200	NR	80-120			M4
Matrix Spike Dup (2347005-MSD1)					Source: E311137-02		Prepared: 11/20/23 Analyzed: 11/20/23		
Chloride	10000	400	250	10200	NR	80-120	0.769	20	M4

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:13

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

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

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





Envirotech Analytical Laboratory

Printed: 11/13/2023 1:49:00PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311104
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:46	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/20/23 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

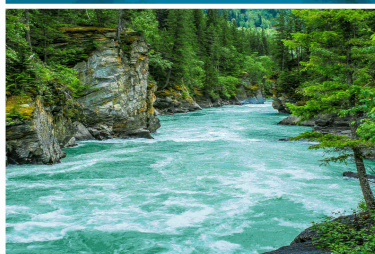
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311105

Job Number: 04108-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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

Date Reported: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311105
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH05 6'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05 6'	E311105-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04108-0639
Project Manager: Gilbert Moreno

Reported:
11/17/2023 2:26:58PM

PH05 6'

E311105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	107 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	98.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	110 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	232	200	10	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

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 (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2) Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346076-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
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 (2346076-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04108-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:26:58PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04108-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:26

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

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

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



Project Information

Chain of Custody

Page 1 of 1

0408-0629

Client: WPX Energy Permian, LLC. Project: RDX 16 #009 Project Manager: Gilbert Moreno Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 832-541-7719 Email: Devon-team@etechnv.com					Bill To			Lab Use Only		TAT			EPA Program																
					Attention: Jim Raley			Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA														
					Address: 5315 Buena Vista Dr.			E31105	016				5 day TAT																
					City, State, Zip: Carlsbad, NM, 88220			Analysis and Method								RCRA													
Collected by: Edyte Konan					Phone: 575-885-7502			State NM CO UT AZ TX X																					
					Email: jim.raley@dmv.com																								
					WO: 21191055																								
					Incident ID: nAPP2322658221, nAPP2317840368																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRD/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks															
10:20	11.09.23	S	1	PH05	1	6'						X																	
11/10/2023																													
Additional Instructions:																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: 0/ N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>																					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																													



envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:44:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311105
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:50	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

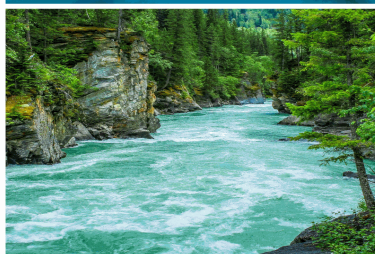
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311106

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311106
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Office: 505-632-1881
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH06 6'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH06 6'	E311106-01A	Solid	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04018-0639
Project Manager: Gilbert Moreno

Reported:
11/17/2023 2:25:49PM

PH06 6'

E311106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		97.8 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		107 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		97.8 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane		110 %	50-200	11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	222	200	10	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

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 (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2) Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346076-BLK1)

Prepared: 11/16/23 Analyzed: 11/16/23

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 (2346076-BS1)

Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)

Source: E311101-03 Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)

Source: E311101-03 Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 2:25:49PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 14:25

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





Page 11 of 12

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:34:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311106
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:53	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

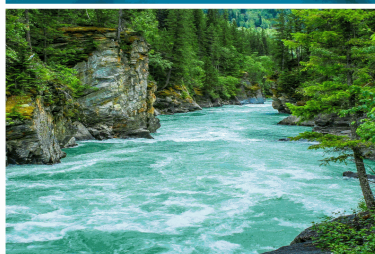
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311107

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/23

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: 11/20/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311107
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH07 6'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH07 6'	E311107-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04018-0639
Project Manager: Gilbert Moreno

Reported:
11/20/2023 3:59:43PM

PH07 6'

E311107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	92.5 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	31.9	20.0	1	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1) Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1) Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1) Source: E311088-02 Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346075-BLK1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			

LCS (2346075-BS1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2346075-MS1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	247	25.0	250	ND	99.0	38-132			
Surrogate: n-Nonane	45.0		50.0		90.1	50-200			

Matrix Spike Dup (2346075-MSD1)					Source: E311102-27		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132	0.202	20	
Surrogate: n-Nonane	44.9		50.0		89.8	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 3:59:43PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 15:59

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

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

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





Envirotech Analytical Laboratory

Printed: 11/15/2023 11:35:27AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311107
Phone:	(539) 573-4018	Date Logged In:	11/13/23 13:57	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

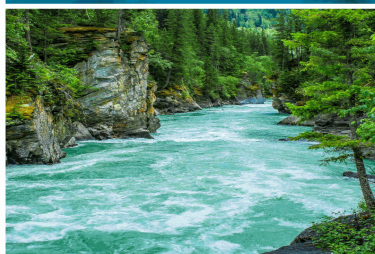
Date



envirotech Inc.

Report to:

Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311108

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311108
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH11 0.5'	5
PH11 4'	6
PH11 6'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH11 0.5'	E311108-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 4'	E311108-02A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.
PH11 6'	E311108-03A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/22/2023 10:50:27AM

PH11 0.5'

E311108-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	89.2 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	104	20.0	1	11/16/23	11/16/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/22/2023 10:50:27AM

PH11 4'

E311108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
<i>Surrogate: n-Nonane</i>						
	92.5 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	ND	200	10	11/16/23	11/16/23	



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/22/2023 10:50:27AM

PH11 6'

E311108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
<i>Surrogate: n-Nonane</i>						
	83.3 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	ND	200	10	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

Volatile Organics by EPA 8021B

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 (2346023-BLK1)

Prepared: 11/14/23 Analyzed: 11/16/23

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	7.78		8.00		97.3	70-130			

LCS (2346023-BS1)

Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2346023-MS1)

Source: E311089-03

Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2346023-MSD1)

Source: E311089-03

Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	3.04	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	2.96	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	3.37	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	3.06	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2346023-BS2) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2346023-MS2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2346023-MSD2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

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 (2346080-BLK1) Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1) Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1) Source: E311108-03 Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1) Source: E311108-03 Prepared: 11/16/23 Analyzed: 11/16/23

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:50:27AM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:50

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

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

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



Project Information

Chain of Custody

Page 1 of 1

Client: WPX Energy Permian, LLC.					Bill To		Lab Use Only						TAT			EPA Program						
Project: RDX 16 #009					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Gilbert Moreno					Address: 5315 Buena Vista Dr.		E311108		04018-0081							5 day TAT						
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method												RCRA			
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOC NM	XL DDOC	State							
Phone: 832-541-7719					Email: jlm.raley@dmv.com										NM	CO	UT	AZ	TX			
Email: Devon-team@etechnv.com					WO: 21191055																	
Collected by: Edyte Konan					Incident ID: nAPP2322658221, nAPP2317840368													Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
10:50	11/09/23	S	1	PH11	1	0.5'								X								
11:00	11/09/23	S	1	PH11	2	4'								X								
11:10	11/09/23	S	1	PH11	3	6'								X								
11/10/2023																						
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on Ice: <u>Y/N</u>										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:35:55AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311108
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:00	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

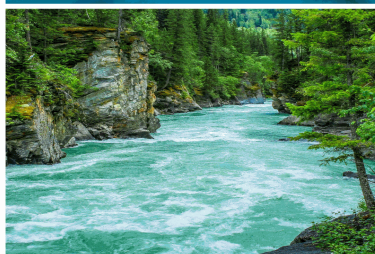
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311109

Job Number: 01058-0007

Received: 11/13/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311109
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH12 0.5'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 0.5'	E311109-01A	Soil	11/09/23	11/13/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/22/2023 10:53:54AM

PH12 0.5'

E311109-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	108 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.9 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346079
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	111 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	14400	400	20	11/16/23	11/16/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:53:54AM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:53:54AM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:53:54AM

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 (2346079-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2346079-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	300	25.0	250		120	38-132			
Surrogate: n-Nonane	59.0		50.0		118	50-200			

Matrix Spike (2346079-MS1)					Source: E311128-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	59.9		50.0		120	50-200			

Matrix Spike Dup (2346079-MSD1)					Source: E311128-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	38-132	2.50	20	
Surrogate: n-Nonane	56.8		50.0		114	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/2023 10:53:54AM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/22/23 10:53

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

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

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



Project Information

Chain of Custody

Client: WPX Energy Permian, LLC.				Bill To		Lab Use Only		TAT				EPA Program			
Project: RDX 16 #009				Attention: Jim Raley		Lab WOH# E31109		Job Number 04018-0009		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.									5 day TAT		
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220										RCRA	
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502											
Phone: 832-541-7719				Email: jim.raley@dev.com											
Email: Devon-team@etechnv.com				WO: 21191055											
				Incident ID: nAPP2322658221, nAPP2317840368											
Collected by: Edyte Konan															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8160	Metals 6010	Chloride 300 D	BGDOC NM	GDOC TX	Remarks	
11:20	11.09.23	S	1	PH12		0.5'						X			
11/10/2023															
Additional Instructions:															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM															
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only			
		11/10/2023						11/13/23		9:00		Received on ice: 0 / N			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



envirotech

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:36:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311109
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:05	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

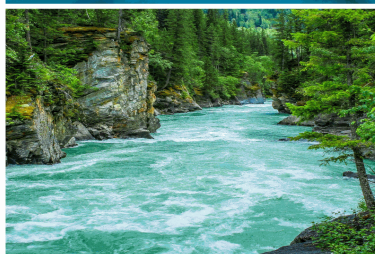
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311110

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311110
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH12 4'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 4'	E311110-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04018-0639
Project Manager: Gilbert Moreno

Reported:
11/17/2023 3:02:57PM

PH12 4'

E311110-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene	109 %	70-130		11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130		11/14/23	11/16/23	
Surrogate: Toluene-d8	97.5 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	85.1 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	14700	400	20	11/16/23	11/17/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

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 (2346080-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:02:57PM

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 (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:02

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

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

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





Envirotech Analytical Laboratory

Printed: 11/15/2023 11:37:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311110
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:07	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

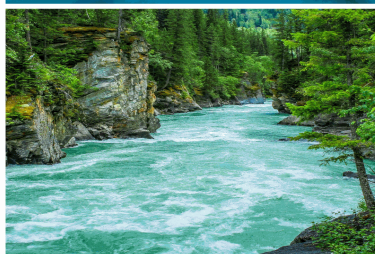
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #009

Work Order: E311111

Job Number: 04018-0639

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/17/23

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: 11/17/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #009
Workorder: E311111
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #009.

The analytical test results summarized in this report with the Project Name: RDX 16 #009 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH12 6'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH12 6'	E311111-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #009
Project Number: 04018-0639
Project Manager: Gilbert Moreno

Reported:
11/17/2023 3:00:38PM

PH12 6'

E311111-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: Bromofluorobenzene		111 %	70-130	11/14/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	11/14/23	11/16/23	
Surrogate: Toluene-d8		98.4 %	70-130	11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		93.7 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346090
Chloride	960	200	10	11/16/23	11/17/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

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	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.9	70-130			
Toluene	2.39	0.0250	2.50		95.8	70-130			
o-Xylene	2.50	0.0250	2.50		100	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.40	0.0250	7.50		98.6	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.8	70-130			

Matrix Spike (2346022-MS1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.45	0.0250	2.50	ND	98.2	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.24	0.0250	2.50	ND	89.8	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.68	0.0500	5.00	ND	93.6	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.2	43-135			
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2346022-MSD1)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Benzene	2.65	0.0250	2.50	ND	106	48-131	7.51	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	8.21	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	7.07	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	7.71	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	7.32	27	
Total Xylenes	7.62	0.0250	7.50	ND	102	43-135	7.45	27	
Surrogate: Bromofluorobenzene	0.552		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

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 (2346022-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2346022-BS2)

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2346022-MS2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.559		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike Dup (2346022-MSD2)

Source: E311088-02

Prepared: 11/14/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0	ND	112	70-130	2.39	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

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 (2346080-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			

LCS (2346080-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			

Matrix Spike (2346080-MS1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			

Matrix Spike Dup (2346080-MSD1)					Source: E311108-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	Reported:
5315 Buena Vista Dr	Project Number:	04018-0639	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/2023 3:00:38PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346090-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	ND	20.0							
LCS (2346090-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)					Source: E311129-05		Prepared: 11/16/23 Analyzed: 11/16/23		
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #009	
5315 Buena Vista Dr	Project Number:	04018-0639	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/17/23 15:00

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



Chain of Custody

⑤

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:38:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311111
Phone:	(539) 573-4018	Date Logged In:	11/13/23 14:10	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

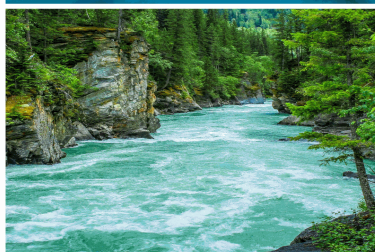
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: RDX 16 #008

Work Order: E311101

Job Number: 01058-0007

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/20/23

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

Date Reported: 11/20/23

Gilbert Moreno
5315 Buena Vista Dr
Carlsbad, NM 88220



Project Name: RDX 16 #008
Workorder: E311101
Date Received: 11/13/2023 9:00:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 9:00:00AM, under the Project Name: RDX 16 #008.

The analytical test results summarized in this report with the Project Name: RDX 16 #008 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH13 0.5'	5
PH13 1'	6
PH14 0.5'	7
PH14 1'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH13 0.5'	E311101-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH13 1'	E311101-02A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 0.5'	E311101-03A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
PH14 1'	E311101-04A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/20/2023 1:43:42PM

PH13 0.5'

E311101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
Surrogate: n-Nonane	105 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346094
Chloride	94.7	20.0	1	11/16/23	11/18/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/20/2023 1:43:42PM

PH13 1'

E311101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346094
Chloride	ND	200	10	11/16/23	11/18/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/20/2023 1:43:42PM

PH14 0.5'

E311101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346094
Chloride	107	20.0	1	11/16/23	11/18/23	



Sample Data

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

Project Name: RDX 16 #008
Project Number: 01058-0007
Project Manager: Gilbert Moreno

Reported:
11/20/2023 1:43:42PM

PH14 1'

E311101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Benzene	ND	0.0250	1	11/14/23	11/16/23	
Ethylbenzene	ND	0.0250	1	11/14/23	11/16/23	
Toluene	ND	0.0250	1	11/14/23	11/16/23	
o-Xylene	ND	0.0250	1	11/14/23	11/16/23	
p,m-Xylene	ND	0.0500	1	11/14/23	11/16/23	
Total Xylenes	ND	0.0250	1	11/14/23	11/16/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346023
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/14/23	11/16/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/14/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346076
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/16/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346094
Chloride	ND	200	10	11/16/23	11/18/23	



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

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	7.78		8.00		97.3	70-130			

LCS (2346023-BS1) Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2346023-MS1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.06	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.05	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2346023-MSD1) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	2.96	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	3.04	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	2.96	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	3.37	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	3.06	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	3.16	20	
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

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 (2346023-BLK1) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2346023-BS2) Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2346023-MS2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2346023-MSD2) Source: E311089-03 Prepared: 11/14/23 Analyzed: 11/16/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130	2.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346076-BLK1)					Prepared: 11/16/23 Analyzed: 11/16/23				
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 (2346076-BS1)					Prepared: 11/16/23 Analyzed: 11/16/23				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2346076-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike Dup (2346076-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/16/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.21	20	
Surrogate: n-Nonane	53.0		50.0		106	50-200			



QC Summary Data

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/2023 1:43:42PM

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 (2346094-BLK1)					Prepared: 11/16/23 Analyzed: 11/18/23				
Chloride	ND	20.0							
LCS (2346094-BS1)					Prepared: 11/16/23 Analyzed: 11/18/23				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2346094-MS1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/18/23		
Chloride	359	20.0	250	107	101	80-120			
Matrix Spike Dup (2346094-MSD1)					Source: E311101-03		Prepared: 11/16/23 Analyzed: 11/18/23		
Chloride	349	20.0	250	107	96.9	80-120	2.99	20	

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	RDX 16 #008	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/20/23 13:43

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



Client: WPX Energy Permian, LLC.				Bill To				Lab Use Only				TAT				EPA Program						
Project: RDX 16 #009				Attention: Jim Raley				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Gilbert Moreno				Address: 5315 Buena Vista Dr.				E.31101		01028-0007					5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220				Analysis and Method												RCRA		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502				Depth(ft.)	TPH GRO/DRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300 0	BGDOC NM	GDGC TX	State						
Phone: 832-541-7719				Email: jim.raley@dm.com												NM	CO	UT	AZ	TX		
Email: Devon-team@etechenv.com				WO: 21191055																		
				Incident ID: nAPP2322658221, nAPP2317840368																		
Collected by: Edyte Konan																						
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number												Remarks					
11:50	11.09.23	S	1	PH13	1	0.5'							X									
12:00	11.09.23	S	1	PH13	2	1'							X									
12:10	11.09.23	S	1	PH14	3	0.5'							X									
12:20	11.09.23	S	1	PH14	4	1'							X									
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.										
Sampled by: GM																						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only																
	11/10/2023			11/13/23	9:00	Received on ice: 0/ N																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																						
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

**envirotech**

Envirotech Analytical Laboratory

Printed: 11/15/2023 11:31:59AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	11/13/23 09:00	Work Order ID:	E311101
Phone:	(539) 573-4018	Date Logged In:	11/13/23 12:40	Logged In By:	Jordan Montano
Email:	devon-team@ensolum.com	Due Date:	11/17/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 296739

QUESTIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317840368
Incident Name	NAPP2317840368 RDX 16 #009 @ 30-015-39752
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-39752] RDX 16 #009

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RDX 16 #009
Date Release Discovered	06/26/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error Tank (Any) Crude Oil Released: 50 BBL Recovered: 40 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 522 BBL Recovered: 480 BBL Lost: 42 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 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number:
	296739
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmn.com Date: 12/20/2023
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QUESTIONS, Page 3

Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID:
	246289
	Action Number: 296739
Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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 500 and 1000 (ft.)
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	25200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	25500
GRO+DRO (EPA SW-846 Method 8015M)	18300
BTEX (EPA SW-846 Method 8021B or 8260B)	3.5
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/01/2024
On what date will (or did) the final sampling or liner inspection occur	11/09/2023
On what date will (or was) the remediation complete(d)	11/09/2023
What is the estimated surface area (in square feet) that will be reclaimed	1838
What is the estimated volume (in cubic yards) that will be reclaimed	272
What is the estimated surface area (in square feet) that will be remediated	11214
What is the estimated volume (in cubic yards) that will be remediated	365

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 296739

QUESTIONS (continued)

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	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360
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@dv.com Date: 12/20/2023
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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.

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QUESTIONS, Page 5

Action 296739

QUESTIONS (continued)

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 296739

QUESTIONS (continued)

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	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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 296739

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 296739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance request to collect confirmation sidewall and floor samples no more than 400 square feet is approved. Submit deferral request or remediation closure report to the OCD by 6/4/2024	3/7/2024