



October 31, 2023

New Mexico Energy Minerals and Natural Resources Department

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request Addendum
North Brush Draw Federal 35 #012H
Incident Numbers nAPP2232043831 & nAPP2302534751
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Energy Permian, LLC. (WPX), has prepared this *Closure Request Addendum* to document additional soil sampling activities at the North Brushy Draw Federal 35 #012H (Site) (Figure 1). On April 12, 2023, A *Closure Request* (CR), authored by Wescom, Inc. (Wescom), was submitted to the New Mexico Oil Conservation Division (NMOCD) for the releases associated with Incident Numbers nAPP2232043831 & nAPP2302534751; however, the request was denied by the NMOCD. The original CR and other supporting documents can be viewed on the NMOCD web portal.

The purpose of this *Closure Request Report Addendum* (CRRRA) is to address concerns by NMOCD regarding sidewall sampling near the edge of the secondary containment. Based on field observations, field screening activities, and laboratory analytical results from soil sampling events, WPX is requesting Closure for Incident Numbers nAPP2232043831 & nAPP2302534751.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 35, Township 25 South, Range 29 East, Eddy County, New Mexico (32.079725°, -103.9516162°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 16, 2022, a water line developed a leak, resulting in the release of 32 barrels (bbls) of produced water into a lined secondary containment and 1 bbl to the pad surface; approximately 31 bbls were recovered from inside containment. WPX reported the release to NMOCD on a Release Notification Form C-141 (Form C-141) on November 16, 2022. The release was assigned Incident Number nAPP2232043831.

On January 23, 2023, a thermowell on a separator failed, resulting in the release of 25 bbls of produced water into a lined secondary containment and 1 bbl to the pad surface; approximately 25 bbls were recovered from inside containment. WPX reported the release to NMOCD on a Form C-141 on January 25, 2023. The release was assigned Incident Number nAPP2302534751.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of Form C-141, Site Assessment/Characterization included in Appendix A.

The closest permitted groundwater well with depth to groundwater data is WPX well MW-1, associated with North Brushy Draw Federal 35 #010H, with a depth to groundwater measurement greater than 105 feet below ground surface (bgs). The well is located on Site and the most recent documented water level measurement was collected on December 16, 2020. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 312 feet South of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

DELINEATION AND CONFIRMATION SOIL SAMPLING

On September 7, 2023, Ensolum personnel visited the Site to perform additional soil sampling activities and to verify the lateral extent of the release areas. Delineation soil samples SS06 and SS07 were collected from the northeast and northwest corners of the separator containment at ground surface. Delineation soil samples were field screened for chloride using the MOHR titration method. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected, and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

A 5-point composite sidewall soil sample (SW01) was collected from an area 200 square feet in size along the southern edge of the separator containment at ground surface. The 5-point composite sidewall sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag

and homogenizing the sample by thoroughly mixing. The sample was handled in the same manner as described above and the location of the confirmation sidewall sample is depicted on Figure 3.

Ensolum personnel returned to the Site on October 18, 2023, to advance a borehole via hand auger in the middle of the first release extent. Borehole sample SS08, was advanced to 2.25 feet bgs to attempt to successfully define the vertical soil of the first release extent. Field screening results and observations for the pothole was logged on a lithologic soil sampling log, which is included in Appendix D.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS06 and SS07, collected in the immediate area surrounding the Separator containment, indicated all COC concentrations were in compliance with the Site Closure Criteria and with the reclamation requirement.

Laboratory analytical results from confirmation sidewall sample SW01 indicated all COC concentrations were in compliance with the Site Closure Criteria. Laboratory analytical results from borehole sample SS08B indicated all COC concentrations were in compliance with the Site Closure Criteria and with the reclamation requirement at 2 feet bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Site assessment and delineation soil sampling activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the November 2022 and January 2023 releases of produced water. Laboratory analytical results for soil samples collected around and within the release extent (SS01 through SS04 and SS05A through SS08C) indicated all delineation soil samples were compliant with the Site Closure Criteria and provided lateral and vertical delineation to the strictest Closure Criteria.

Confirmation soil sample CONF01 and confirmation sidewall sample SW01 indicated all COC concentrations were in compliance with the Site Closure Criteria and lateral delineation soil samples SS02 through SS07 verify the releases remained on-pad and do not extend beyond the release extents or the separator containment.

The two produced water releases occurred in lined containment and on pad directly next to active production equipment and flowlines. Assessment activities have confirmed the absence of impacts to soil at the Site. The lateral delineation samples were collected directly outside of the visible release extents where possible (southern and east). Due to the presence of the production equipment to the north, lateral soil samples were collected in appropriate areas to the north and west and added a confirmation sidewall soil sample (SW01) as required by NMOCD to confirm the absence of impacts beneath the production equipment. Impacts do not appear to be beneath the production equipment and as such, deferral of remediation is not required for these two releases. Lastly, reclamation of the well pad will coincide with the plugging and abandonment of the production well, which reduces the transport and disposal of non-impacted caliche to a landfill and requiring additional road traffic and procurement of new caliche, all of which would be more adverse to the environment if completed now and at the time of plugging and abandonment.

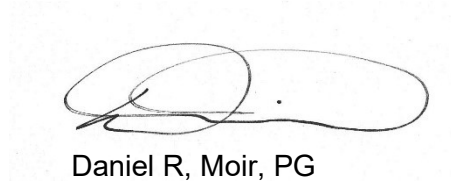
Based on the findings and conclusions drawn above and a depth to groundwater greater than 105 feet bgs, WPX believes these Site assessment and delineation activities have been protective of human health, the environment, and groundwater and respectfully requests approval of this *CRRA* for Incident Numbers nAPP2232043831 & nAPP2302534751.

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

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Engineer



Daniel R. Moir, PG
Senior Managing Geologist

cc: James Raley, Devon Energy
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Well Record and Log
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Notifications



FIGURES

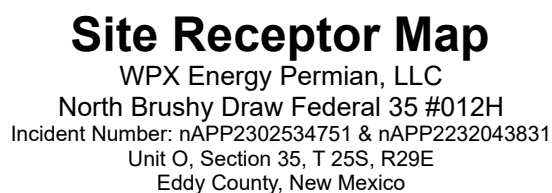
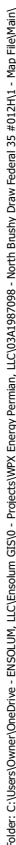
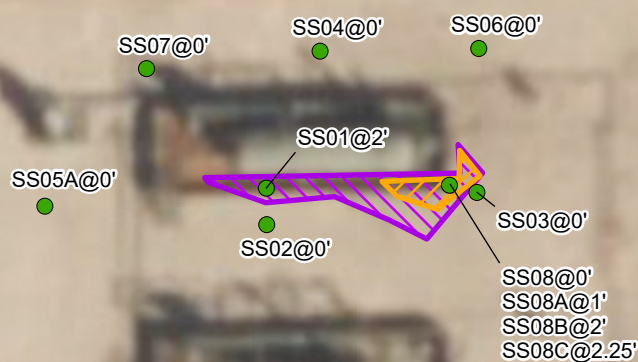


FIGURE 1

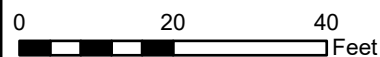
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\WPX Energy, Inc\03A1987098 - North Brushy Draw Federal 35 #012H.aprx

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Release Extent (1st Spill)
- Release Extent (2nd Spill)



Notes:
Sample ID @ Depth Below Ground Surface



Source:
Bing Maps



Delineation Soil Sample Locations

WPX Energy Permian, LLC
North Brushy Draw Federal 35 #012H
Project Number: 03A1987098
Unit O, Section 35, T 25S, R29E
Eddy County, New Mexico

FIGURE
2



Confirmation Soil Sample Locations

WPX Energy Permian, LLC
 North Brushy Draw Federal 35 #012H
 Project Number: 03A1987098
 Unit O, Section 35, T 25S, R29E
 Eddy County, New Mexico

FIGURE
3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 North Brushy Draw Fed 35 #012H
 WPX Energy Permain, LLC
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	3/17/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	70.7
SS02	3/17/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	311
SS03	3/17/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	29.3
SS04	3/17/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	32.1
SS05A	3/17/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	561
SS06	9/7/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	136
SS07	9/7/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	38.8
SS08	10/18/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	6,400
SS08A	10/18/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	2,790
SS08B	10/18/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	580
SS08C	10/18/2023	2.25	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	447
Confirmation Soil Samples										
CONF01	3/17/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	6,570
SW01	9/7/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	2,480

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Form C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2232043831
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dvn.com	Incident # (assigned by OCD) nAPP2232043831
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0797257 Longitude -103.9514552
(NAD 83 in decimal degrees to 5 decimal places)

Site Name NORTH BRUSHY DRAW FEDERAL 35 #012H	Site Type Oil Well
Date Release Discovered 11/16/2022	API# (if applicable) 30-015-43603

Unit Letter	Section	Township	Range	County
O	35	25S	29E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)		
<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 32	Volume Recovered (bbls) 31
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Water line developed leak, allowing for release of approx. 32 bbls produced water to lined secondary containment. Small leak in corner of containment allowed for the release of approx. 1 bbl produced water to pad surface.


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

Incident ID	nAPP2232043831
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Adrian Sandoval, Mike Bratcher via email on 11/15/2022.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Raley</u>	Title: <u>Environmental Professional</u>
Signature: <u></u>	Date: <u>11/16/2022</u>
email: <u>jim.raley@dm.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>11/16/2022</u>

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 159393

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 159393
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/16/2022

Incident ID	nAPP2232043831
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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


State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2232043831
District RP	
Facility ID	
Application ID	

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

Printed Name: Jim Raley Title: Environmental Specialist

Signature:  Date: 11/2/2023

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2232043831
District RP	
Facility ID	
Application ID	

Closure

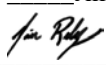
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jim Raley Title: Environmental Specialist

Signature:  Date: 11/2/2023

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

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Scott Rodgers Date: 02/26/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	nAPP2302534751
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmn.com	Incident # (assigned by OCD) nAPP2302534751
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.079725 Longitude -103.9516162
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NORTH BRUSHY DRAW FEDERAL 35 #010H	Site Type Oil Well
Date Release Discovered: 1/23/2023	API# (if applicable) 30-015-43638

Unit Letter	Section	Township	Range	County
O	35	25S	29E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls) 0	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 26	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Thermowell on the separator failed allowing the release of approx.. 25 bbls of produced water to lined containment and approx. 1 bbl produced water to pad surface from spraying.


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

Incident ID	nAPP2302534751
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email to Mike Bratcher and Rosa Romero on 1/23/2023	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Jim Raley</u> Title: <u>Environmental Professional</u> Signature: <u></u> Date: <u>1/25/2023</u> email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>01/25/2023</u>

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 179400

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 179400
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	1/25/2023

Incident ID	nAPP2302534751
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>105</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2302534751
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Jim Raley _____ Title: _____ Environmental Specialist _____

Signature:  _____ Date: __11/2/2023 _____

email: __jim.raley@dm.com _____ Telephone: __575-689-7597 _____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2302534751
District RP	
Facility ID	
Application ID	

Closure


The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Jim Raley _____ Title: _____ Environmental Specialist _____

Signature:  _____ Date: _____ 11/2/2023 _____

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

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.


Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



APPENDIX B

Well Record and Log

 HRL COMPLIANCE SOLUTIONS							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Well Number: MW-1		Location: North Brushy Federal 35 # 010H				
							Date: 12/8/2020		Client: WPX Energy				
Drilling Method: Air Rotary		Sampling Method: None		Logged By: J. Linn, PG		Drilled By: Talon LPE							
Gravel Pack Type: 10/20 Sand		Gravel Pack Depth Interval: 3 Bags		Seal Type: None		Seal Depth Interval: None		Latitude: 32.079909					
Casing Type: PVC		Diameter: 2-inch		Depth Interval: 0-100 feet bgs		Boring Total Depth (ft. BGS): 105		Longitude: -103.951386					
Screen Type: PVC		Slot: 0.010-inch		Diameter: 2-inch		Depth Interval: 100 - 105 ft		Well Total Depth (ft. BGS): 105		Depth to Water (ft. BTWC): > 105		DTW Date: 12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion		
0	NM	L	D	N	N	NM	CE	NS	Buff to pale pink caliche				
5													
10													
15													
20	NM	L	D	N	N	NM	SM	NS	Tan to pale red silty sand				
25													
30													
35													
40													
45													
50	NM	M	M	N	N	NM	ML	NS	Tan to pale red sandy silt with minor medium sand				
55													
60	NM	H	M	N	N	NM	CL	NS	Tan clay with minor gravel				
65													
70	NM	L	D	N	N	NM	SP	NS	Pale red poorly graded fine sand with minor silt				
75													
80													
85	NM	H	D/SLM	N	N	NM	CL	NS	Grey sandy lean clay with minor medium sand and minor angular gravel				
90													
95													
100	NM	M/H	M	N	N	NM	CL	NS	Brown with orange sandy lean clay with minor medium sand and angular gravel - TD Boring: 105'				



APPENDIX C

Photographic Log



Photographic Log

WPX Energy Permian, LLC
North Brush Draw Federal 35 #012H
nAPP2232043831 & nAPP2302534751



Photograph: 1 Date: 9/7/2023
Description: Side wall sample location
View: East



Photograph: 2 Date: 9/7/2023
Description: Solid steel containment
View: Northeast



Photograph: 3 Date: 9/7/2023
Description: Delineation on North side of containment
View: Southeast



Photograph: 4 Date: 9/7/2023
Description: Solid rock 1" bgs
View: East

**Photographic Log**

WPX Energy Permian, LLC
North Brush Draw Federal 35 #012H
nAPP2232043831 & nAPP2302534751



Photograph: 5
Description: Delineation-SS08
View: Northwest

Date: 10/18/2023




Photograph: 6
Description: Delineation-SS08
View: West

Date: 10/18/2023



APPENDIX D

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: Cole Burton		Date: 10/18/2023				
		Site Name: North Brushy Draw Federal 35 3012H						
		Incident Numbers: nAPP2302534751 & nAPP2232043831						
		Job Number: 03A1987098						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.080330, -103.950934			Logged By: Cole Burton		Method: Hand Auger			
			Hole Diameter: 4"		Total Depth: 2.25 Ft.			
Comments: Field screening for chloride conducted by MOHR method titration.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	-	-	Y	SS08	0	0	CCHE	CCHE. Pad Caliche, ligh staining and light odor.
D	2400	-	N	SS08A	1	1	CCHE	CCHE. Pad Caliche, no staining and no odor.
D	500	-	N	SS08B	2	2	CCHE	CCHE. Pad Caliche, no staining and no odor.
D	450	-	N	SS08C	2.25	2.25	CCHE	
Total Depth @ 2.25 ft bgs								



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Brushy Draw Federal 35
#012H

Work Order: E302084

Job Number: 01058-0007

Received: 2/19/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/27/23

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: 2/27/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: North Brushy Draw Federal 35 #012H
Workorder: E302084
Date Received: 2/19/2023 10:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/19/2023 10:15:00AM, under the Project Name: North Brushy Draw Federal 35 #012H.

The analytical test results summarized in this report with the Project Name: North Brushy Draw Federal 35 #012H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	6
BG01 - 0'	6
SS01 - 2'	7
SS02 - 0'	8
SS03 - 0'	9
SS04 - 0'	10
SS05A - 0'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/27/23 15:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 0'	E302084-01A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.
SS01 - 2'	E302084-02A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.
SS02 - 0'	E302084-03A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.
SS03 - 0'	E302084-04A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.
SS04 - 0'	E302084-05A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.
SS05A - 0'	E302084-06A	Soil	02/16/23	02/19/23	Glass Jar, 4 oz.



Case Narrative:

Project Name: North Brushy Draw Federal 35 #012H

Workorder: E302084

Date Received: 02-19-2023

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
SS05A-0'	E302084-06A	Anions by EPA 300.0/9056A

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

BG01 - 0'

E302084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.4 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2308006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2308003
Chloride	ND	20.0	1	02/20/23	02/20/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

SS01 - 2'

E302084-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2308002	
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2308002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.6 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2308006	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2308003	
Chloride	70.7	20.0	1	02/20/23	02/20/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

SS02 - 0'

E302084-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.0 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2308006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
		99.4 %	50-200	02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2308003
Chloride	311	20.0	1	02/20/23	02/20/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

SS03 - 0'

E302084-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.0 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2308006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2308003
Chloride	29.3	20.0	1	02/20/23	02/20/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

SS04 - 0'

E302084-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2308002	
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	103 %	70-130		02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2308002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.3 %	70-130		02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2308006	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2308003	
Chloride	32.1	20.0	1	02/20/23	02/20/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
2/27/2023 3:39:02PM

SS05A - 0'

E302084-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Benzene	ND	0.0250	1	02/19/23	02/20/23	
Ethylbenzene	ND	0.0250	1	02/19/23	02/20/23	
Toluene	ND	0.0250	1	02/19/23	02/20/23	
o-Xylene	ND	0.0250	1	02/19/23	02/20/23	
p,m-Xylene	ND	0.0500	1	02/19/23	02/20/23	
Total Xylenes	ND	0.0250	1	02/19/23	02/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2308002
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/23	02/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.4 %	70-130	02/19/23	02/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2308006
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/23	02/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/23	02/20/23	
<i>Surrogate: n-Nonane</i>						
		96.2 %	50-200	02/20/23	02/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2309013
Chloride	564	20.0	1	02/27/23	02/27/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/27/2023 3:39:02PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2308002-BLK1) Prepared: 02/19/23 Analyzed: 02/20/23

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: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			

LCS (2308002-BS1) Prepared: 02/19/23 Analyzed: 02/20/23

Benzene	4.32	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.5	70-130			
Toluene	4.56	0.0250	5.00		91.2	70-130			
o-Xylene	4.60	0.0250	5.00		92.0	70-130			
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130			
Total Xylenes	13.7	0.0250	15.0		91.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike (2308002-MS1) Source: E302083-02 Prepared: 02/19/23 Analyzed: 02/20/23

Benzene	5.00	0.0250	5.00	ND	100	54-133			
Ethylbenzene	5.18	0.0250	5.00	ND	104	61-133			
Toluene	5.28	0.0250	5.00	ND	106	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2308002-MSD1) Source: E302083-02 Prepared: 02/19/23 Analyzed: 02/20/23

Benzene	4.48	0.0250	5.00	ND	89.6	54-133	10.9	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	11.2	20	
Toluene	4.72	0.0250	5.00	ND	94.5	61-130	11.1	20	
o-Xylene	4.77	0.0250	5.00	ND	95.5	63-131	11.1	20	
p,m-Xylene	9.39	0.0500	10.0	ND	93.9	63-131	11.0	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.4	63-131	11.0	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/27/2023 3:39:02PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2308002-BLK1)					Prepared: 02/19/23 Analyzed: 02/20/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

LCS (2308002-BS2)					Prepared: 02/19/23 Analyzed: 02/20/23				
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

Matrix Spike (2308002-MS2)					Source: E302083-02		Prepared: 02/19/23 Analyzed: 02/20/23		
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

Matrix Spike Dup (2308002-MSD2)					Source: E302083-02		Prepared: 02/19/23 Analyzed: 02/20/23		
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.7	70-130	0.779	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/27/2023 3:39:02PM

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 (2308006-BLK1)					Prepared: 02/20/23 Analyzed: 02/20/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2308006-BS1)					Prepared: 02/20/23 Analyzed: 02/20/23				
Diesel Range Organics (C10-C28)	201	25.0	250		80.3	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike (2308006-MS1)					Source: E302083-01		Prepared: 02/20/23 Analyzed: 02/20/23		
Diesel Range Organics (C10-C28)	212	25.0	250	ND	84.7	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

Matrix Spike Dup (2308006-MSD1)					Source: E302083-01		Prepared: 02/20/23 Analyzed: 02/20/23		
Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.3	38-132	4.21	20	
Surrogate: n-Nonane	49.3		50.0		98.7	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/27/2023 3:39:02PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2308003-BLK1)					Prepared: 02/20/23 Analyzed: 02/20/23				
Chloride	ND	20.0							
LCS (2308003-BS1)					Prepared: 02/20/23 Analyzed: 02/20/23				
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2308003-MS1)					Source: E302083-01		Prepared: 02/20/23 Analyzed: 02/20/23		
Chloride	265	200	250	ND	106	80-120			
Matrix Spike Dup (2308003-MSD1)					Source: E302083-01		Prepared: 02/20/23 Analyzed: 02/20/23		
Chloride	275	200	250	ND	110	80-120	3.96	20	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/27/2023 3:39:02PM

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 (2309013-BLK1)					Prepared: 02/27/23 Analyzed: 02/27/23				
Chloride	ND	20.0							
LCS (2309013-BS1)					Prepared: 02/27/23 Analyzed: 02/27/23				
Chloride	266	20.0	250		106	90-110			
Matrix Spike (2309013-MS1)					Source: E302084-06		Prepared: 02/27/23 Analyzed: 02/27/23		
Chloride	788	20.0	250	564	89.8	80-120			
Matrix Spike Dup (2309013-MSD1)					Source: E302084-06		Prepared: 02/27/23 Analyzed: 02/27/23		
Chloride	842	20.0	250	564	111	80-120	6.62	20	

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/27/23 15:39

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

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

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

Client: Devon		Bill To		Lab Use Only		TAT		EPA Program	
Project: North Brushy Draw Federal 35 #012H		Attention: Jim Raley		Lab WO# E302084		Job Number 01058-0007		CWA	
Project Manager: Ashley Giovengo		Address: 5315 Buena Vista Dr						SDWA	
Address: 1224 Standpipe Rd		City, State, Zip: Calsbad, NM 88220						RCRA	
City, State, Zip: Carlsbad, NM 88220		Phone: 575-689-7597							
Phone: 505-382-1211		Email: jim.raley@dmv.com							
Email: ashley.giovengo@wescominc.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:30	2/16/23	Soil	1 Jar	BG01 - 0'	1							X		
10:06	2/16/23	Soil	1 Jar	SS01 - 2'	2							X		
10:11	2/16/23	Soil	1 Jar	SS02 - 0'	3							X		
10:13	2/16/23	Soil	1 Jar	SS03 - 0'	4							X		
10:17	2/16/23	Soil	1 Jar	SS04 - 0'	5							X		
11:08	2/16/23	Soil	1 Jar	SS05A - 0'	6							X		

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dmv.com, ashley.giovengo@wescominc.com, iason.iohnsen@wescominc.com

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

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4.0
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	

Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Envirotech Analytical Laboratory

Printed: 2/20/2023 9:05:04AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	02/19/23 10:15	Work Order ID:	E302084
Phone:	(505) 382-1211	Date Logged In:	02/17/23 15:22	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	02/24/23 07:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 1

Client: Devon					Bill To					Lab Use Only					TAT				EPA Program					
Project: North Brushy Draw Federal 35 #012H					Attention: Jim Raley					Lab WO# E302084					Job Number 11058-0007				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo					Address: 5315 Buena Vista Dr					Analysis and Method														
Address: 1224 Standpipe Rd					City, State, Zip: Calsbad, NM 88220																			
City, State, Zip: Carlsbad, NM 88220					Phone: 575-689-7597													RCRA						
Phone: 505-382-1211					Email: jim.raley@dv.com																			
Email: ashley.giovengo@wescominc.com																								
Report due by:																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Re-run	BGDOC NM	BGDOC TX	State			Remarks						
9:30	2/16/23	Soil	1 Jar	BG01 - 0'	1								X		NM									
10:06	2/16/23	Soil	1 Jar	SS01 - 2'	2								X		CO									
10:11	2/16/23	Soil	1 Jar	SS02 - 0'	3								X		UT									
10:13	2/16/23	Soil	1 Jar	SS03 - 0'	4								X		AZ									
10:17	2/16/23	Soil	1 Jar	SS04 - 0'	5								X		TX									
11:08	2/16/23	Soil	1 Jar	SS05A - 0'	6						X		X					Run Cl on sample #6 per client request C. Burton 2/27/23						
Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dv.com, ashley.giovengo@wescominc.com, Jason.Iohnsen@wescominc.com										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.														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Sampled by:														
Relinquished by: (Signature) [Signature]					Date 2-17-23		Time 10:58		Received by: (Signature) [Signature]					Date 2-17-23		Time 10:58		Lab Use Only						
Relinquished by: (Signature) [Signature]					Date 2-17-23		Time 16:30		Received by: (Signature) [Signature]					Date 2-17-23		Time 16:45		Received on ice: Y / N						
Relinquished by: (Signature) [Signature]					Date 2-17-23		Time 22:30		Received by: (Signature) [Signature]					Date 2/19/23		Time 10:15		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.																								

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Brushy Draw Federal 35
#012H

Work Order: E303075

Job Number: 01058-0007

Received: 3/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/27/23

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/27/23

Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210



Project Name: North Brushy Draw Federal 35 #012H
Workorder: E303075
Date Received: 3/22/2023 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/22/2023 5:00:00AM, under the Project Name: North Brushy Draw Federal 35 #012H.

The analytical test results summarized in this report with the Project Name: North Brushy Draw Federal 35 #012H 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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Office: 505-421-LABS(5227)

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CONF01 - 0'	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

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/27/23 08:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 0'	E303075-01A	Soil	03/17/23	03/22/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
3/27/2023 8:41:31AM

CONF01 - 0'

E303075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2312028
Benzene	ND	0.0250	1	03/22/23	03/22/23	
Ethylbenzene	ND	0.0250	1	03/22/23	03/22/23	
Toluene	ND	0.0250	1	03/22/23	03/22/23	
o-Xylene	ND	0.0250	1	03/22/23	03/22/23	
p,m-Xylene	ND	0.0500	1	03/22/23	03/22/23	
Total Xylenes	ND	0.0250	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8	103 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2312028
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene	93.8 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8	103 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2312041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/23	03/22/23	
Surrogate: n-Nonane	83.9 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2312032
Chloride	6570	200	10	03/22/23	03/23/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/27/2023 8:41:31AM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2312028-BLK1)

Prepared: 03/22/23 Analyzed: 03/22/23

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	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2312028-BS1)

Prepared: 03/22/23 Analyzed: 03/23/23

Benzene	2.09	0.0250	2.50		83.4	70-130			
Ethylbenzene	2.20	0.0250	2.50		88.0	70-130			
Toluene	2.18	0.0250	2.50		87.1	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.46	0.0500	5.00		89.3	70-130			
Total Xylenes	6.72	0.0250	7.50		89.6	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

Matrix Spike (2312028-MS1)

Source: E303073-21

Prepared: 03/22/23 Analyzed: 03/22/23

Benzene	2.09	0.0250	2.50	ND	83.8	48-131			
Ethylbenzene	2.18	0.0250	2.50	ND	87.2	45-135			
Toluene	2.18	0.0250	2.50	ND	87.0	48-130			
o-Xylene	2.25	0.0250	2.50	ND	90.0	43-135			
p,m-Xylene	4.44	0.0500	5.00	ND	88.8	43-135			
Total Xylenes	6.69	0.0250	7.50	ND	89.2	43-135			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2312028-MSD1)

Source: E303073-21

Prepared: 03/22/23 Analyzed: 03/22/23

Benzene	2.15	0.0250	2.50	ND	86.0	48-131	2.69	23	
Ethylbenzene	2.27	0.0250	2.50	ND	90.7	45-135	3.98	27	
Toluene	2.25	0.0250	2.50	ND	90.0	48-130	3.37	24	
o-Xylene	2.33	0.0250	2.50	ND	93.1	43-135	3.41	27	
p,m-Xylene	4.61	0.0500	5.00	ND	92.2	43-135	3.69	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135	3.60	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/27/2023 8:41:31AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2312028-BLK1)

Prepared: 03/22/23 Analyzed: 03/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

LCS (2312028-BS2)

Prepared: 03/22/23 Analyzed: 03/22/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike (2312028-MS2)

Source: E303073-21

Prepared: 03/22/23 Analyzed: 03/22/23

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2312028-MSD2)

Source: E303073-21

Prepared: 03/22/23 Analyzed: 03/22/23

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130	3.02	20	
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/27/2023 8:41:31AM

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 (2312041-BLK1)					Prepared: 03/22/23 Analyzed: 03/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.6		50.0		99.2	50-200			

LCS (2312041-BS1)					Prepared: 03/22/23 Analyzed: 03/22/23				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	39.6		50.0		79.2	50-200			

Matrix Spike (2312041-MS1)					Source: E303075-01		Prepared: 03/22/23 Analyzed: 03/22/23		
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132			
Surrogate: n-Nonane	36.2		50.0		72.4	50-200			

Matrix Spike Dup (2312041-MSD1)					Source: E303075-01		Prepared: 03/22/23 Analyzed: 03/22/23		
Diesel Range Organics (C10-C28)	222	25.0	250	ND	88.9	38-132	3.62	20	
Surrogate: n-Nonane	36.1		50.0		72.3	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	3/27/2023 8:41:31AM

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 (2312032-BLK1)					Prepared: 03/22/23 Analyzed: 03/23/23				
Chloride	ND	20.0							
LCS (2312032-BS1)					Prepared: 03/22/23 Analyzed: 03/23/23				
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2312032-MS1)					Source: E303073-21		Prepared: 03/22/23 Analyzed: 03/23/23		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2312032-MSD1)					Source: E303073-21		Prepared: 03/22/23 Analyzed: 03/23/23		
Chloride	254	20.0	250	ND	101	80-120	0.167	20	

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	03/27/23 08:41

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

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

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

Page of 

Envirotech Analytical Laboratory

Printed: 3/22/2023 10:06:27AM

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:	Devon Energy - Carlsbad	Date Received:	03/22/23 05:00	Work Order ID:	E303075
Phone:	(505) 382-1211	Date Logged In:	03/21/23 14:14	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	03/27/23 17:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: North Brushy Draw Fed 35 #012H

Work Order: E309072

Job Number: 01058-0007

Received: 9/9/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/15/23

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/15/23

Ashley Giovengo
3122 National Parks Hwy
Carlsbad, NM 88220



Project Name: North Brushy Draw Fed 35 #012H
Workorder: E309072
Date Received: 9/9/2023 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/9/2023 9:00:00AM, under the Project Name: North Brushy Draw Fed 35 #012H.

The analytical test results summarized in this report with the Project Name: North Brushy Draw Fed 35 #012H 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	6
SW01 - 0'	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

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/15/23 12:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0'	E309072-01A	Soil	09/07/23	09/09/23	Glass Jar, 2 oz.



Case Narrative:

Project Name: North Brushy Draw Fed 35 #012H

Workorder: E309072

Date Received: 9/9/2023

Per client request sample #01 was re-extracted to verify original chloride results. Originally results were reported with a 20x dilution and it was a 2x dilution, the re-extract and bench records all clarified this dilution error.

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

Respectfully,

Walter Hinchman



Sample Data

Ensolum, LLC
3122 National Parks Hwy
Carlsbad NM, 88220

Project Name: North Brushy Draw Fed 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/15/2023 12:13:42PM

SW01 - 0'

E309072-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	107 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	101 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	107 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	101 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337029
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
Surrogate: n-Nonane	96.2 %	50-200		09/12/23	09/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337018
Chloride	2480	40.0	2	09/11/23	09/13/23	



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/15/2023 12:13:42PM

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 (2337004-BLK1) Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS1) Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.89	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2337004-MS1) Source: E309054-01 Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.49	0.0250	2.50	ND	99.7	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2337004-MSD1) Source: E309054-01 Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	2.50	0.0250	2.50	ND	99.9	48-131	0.400	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	0.328	27	
Toluene	2.49	0.0250	2.50	ND	99.5	48-130	0.221	24	
o-Xylene	2.68	0.0250	2.50	ND	107	43-135	0.430	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	0.623	27	
Total Xylenes	7.91	0.0250	7.50	ND	105	43-135	0.558	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			



QC Summary Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: North Brushy Draw Fed 35 #012H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/15/2023 12:13:42PM
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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 (2337004-BLK1)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS2)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike (2337004-MS2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2337004-MSD2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.78	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/15/2023 12:13:42PM

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 (2337029-BLK1)

Prepared: 09/12/23 Analyzed: 09/13/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			

LCS (2337029-BS1)

Prepared: 09/12/23 Analyzed: 09/13/23

Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2337029-MS1)

Source: E309076-02

Prepared: 09/12/23 Analyzed: 09/13/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	49.0		50.0		98.1	50-200			

Matrix Spike Dup (2337029-MSD1)

Source: E309076-02

Prepared: 09/12/23 Analyzed: 09/13/23

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	0.743	20	
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/15/2023 12:13:42PM

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 (2337018-BLK1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	ND	20.0							
LCS (2337018-BS1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2337018-MS1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	287	20.0	250	20.9	106	80-120			
Matrix Spike Dup (2337018-MSD1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	291	20.0	250	20.9	108	80-120	1.54	20	

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



Definitions and Notes

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/15/23 12:13

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

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

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



Client: Ensolum, LLC.		Bill To		Lab Use Only		TAT		EPA Program	
Project: North Brushy Draw Fed 35 #012H		Attention: Jim Raley		Lab WO#		1D 2D 3D		CWA SDWA	
Project Manager: Ashley Gioveno		Address: 5315 Buena Vista Dr		Job Number		Standard			
Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		E309072 010580007		x		RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (575)689-7597		Analysis and Method					
Phone: 575-988-0055		Email: jim.raley@dnv.com							
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	Remarks
9:10	9/7/2023	Soil	1 Jar	SW01 - 0'	1						x		

Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, jim.raley@dnv.com, chamilton@ensolum.com

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

Sampled by:

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

Relinquished by: (Signature) <i>201 BVA</i>	Date 9-8-23	Time 11:12	Received by: (Signature) <i>Michelle Gayle</i>	Date 9-8-23	Time 1112	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gayle</i>	Date 9-8-23	Time 1820	Received by: (Signature) <i>Andrea Messa</i>	Date 9-8-23	Time 1820	
Relinquished by: (Signature) <i>Andrea Messa</i>	Date 9.9.23	Time 2415	Received by: (Signature) <i>Alvin</i>	Date 9.9.23	Time 900	

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 9/11/2023 10:38:46AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Ensolum, LLC	Date Received:	09/09/23 09:00	Work Order ID:	E309072
Phone:	(575) 988-0055	Date Logged In:	09/09/23 11:09	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com	Due Date:	09/15/23 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:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Ensolum, LLC

Project Name: North Brushy Draw Fed 35 #012H

Work Order: E309073

Job Number: 01058-0007

Received: 9/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

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: 9/13/23



Ashley Giovengo
3122 National Parks Hwy
Carlsbad, NM 88220

Project Name: North Brushy Draw Fed 35 #012H
Workorder: E309073
Date Received: 9/9/2023 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/9/2023 9:00:00AM, under the Project Name: North Brushy Draw Fed 35 #012H.

The analytical test results summarized in this report with the Project Name: North Brushy Draw Fed 35 #012H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS06 - 0'	5
SS07 - 0'	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

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported: 09/13/23 12:24
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS06 - 0'	E309073-01A	Soil	09/07/23	09/09/23	Glass Jar, 2 oz.
SS07 - 0'	E309073-02A	Soil	09/07/23	09/09/23	Glass Jar, 2 oz.



Sample Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: North Brushy Draw Fed 35 #012H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2023 12:24:59PM
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SS06 - 0'

E309073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	104 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	101 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	104 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	101 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/12/23	
Surrogate: n-Nonane	101 %	50-200		09/12/23	09/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337018
Chloride	136	40.0	2	09/11/23	09/13/23	



Sample Data

Ensolum, LLC
3122 National Parks Hwy
Carlsbad NM, 88220

Project Name: North Brushy Draw Fed 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
9/13/2023 12:24:59PM

SS07 - 0'

E309073-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		102 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	09/11/23	09/12/23	
Surrogate: Toluene-d8		102 %	70-130	09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2337030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/12/23	
Surrogate: n-Nonane		104 %	50-200	09/12/23	09/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337018
Chloride	38.8	20.0	1	09/11/23	09/13/23	



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 12:24:59PM

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 (2337004-BLK1)

Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS1)

Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.89	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2337004-MS1)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/11/23

Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.49	0.0250	2.50	ND	99.7	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2337004-MSD1)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Benzene	2.50	0.0250	2.50	ND	99.9	48-131	0.400	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	0.328	27	
Toluene	2.49	0.0250	2.50	ND	99.5	48-130	0.221	24	
o-Xylene	2.68	0.0250	2.50	ND	107	43-135	0.430	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	0.623	27	
Total Xylenes	7.91	0.0250	7.50	ND	105	43-135	0.558	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			



QC Summary Data

Ensolum, LLC 3122 National Parks Hwy Carlsbad NM, 88220	Project Name: North Brushy Draw Fed 35 #012H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 9/13/2023 12:24:59PM
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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 (2337004-BLK1)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS2)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike (2337004-MS2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2337004-MSD2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.78	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 12:24:59PM

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 (2337030-BLK1) Prepared: 09/12/23 Analyzed: 09/12/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			

LCS (2337030-BS1) Prepared: 09/12/23 Analyzed: 09/12/23

Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			

Matrix Spike (2337030-MS1) Source: E309070-05 Prepared: 09/12/23 Analyzed: 09/12/23

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			

Matrix Spike Dup (2337030-MSD1) Source: E309070-05 Prepared: 09/12/23 Analyzed: 09/12/23

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	3.99	20	
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			



QC Summary Data

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	Reported:
3122 National Parks Hwy	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	9/13/2023 12:24:59PM

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 (2337018-BLK1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	ND	20.0							
LCS (2337018-BS1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2337018-MS1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	287	20.0	250	20.9	106	80-120			
Matrix Spike Dup (2337018-MSD1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	291	20.0	250	20.9	108	80-120	1.54	20	

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



Definitions and Notes

Ensolum, LLC	Project Name:	North Brushy Draw Fed 35 #012H	
3122 National Parks Hwy	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	09/13/23 12:24

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

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

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

Page 12 of 13

Envirotech Analytical Laboratory

Printed: 9/11/2023 10:42:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Ensolum, LLC	Date Received:	09/09/23 09:00	Work Order ID:	E309073
Phone:	(575) 988-0055	Date Logged In:	09/09/23 11:11	Logged In By:	Alexa Michaels
Email:	a.giovengo@ensolum.com	Due Date:	09/15/23 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:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: North Brushy Draw Federal 35
#012H

Work Order: E310187

Job Number: 01058-0007

Received: 10/20/2023

Revision: 2

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



Ashley Giovengo
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: North Brushy Draw Federal 35 #012H
Workorder: E310187
Date Received: 10/20/2023 8:10:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/20/2023 8:10:00AM, under the Project Name: North Brushy Draw Federal 35 #012H.

The analytical test results summarized in this report with the Project Name: North Brushy Draw Federal 35 #012H 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
SS08A - 1'	5
SS08B - 2'	6
SS08C - 2.25'	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

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported: 10/27/23 12:13
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08A - 1'	E310187-01A	Soil	10/18/23	10/20/23	Glass Jar, 2 oz.
SS08B - 2'	E310187-02A	Soil	10/18/23	10/20/23	Glass Jar, 4 oz.
SS08C - 2.25'	E310187-03A	Soil	10/18/23	10/20/23	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: North Brushy Draw Federal 35 #012H Project Number: 01058-0007 Project Manager: Ashley Giovengo	Reported: 10/27/2023 12:13:56PM
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SS08A - 1'

E310187-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342092	
Benzene	ND	0.0250	1	10/19/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/25/23	
Toluene	ND	0.0250	1	10/19/23	10/25/23	
o-Xylene	ND	0.0250	1	10/19/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/25/23	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.5 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342115	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/20/23	
Surrogate: n-Nonane	98.9 %	50-200		10/20/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2342102	
Chloride	6400	400	20	10/20/23	10/24/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/27/2023 12:13:56PM

SS08B - 2'

E310187-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342092
Benzene	ND	0.0250	1	10/19/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/25/23	
Toluene	ND	0.0250	1	10/19/23	10/25/23	
o-Xylene	ND	0.0250	1	10/19/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342092
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/20/23	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		10/20/23	10/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2342102
Chloride	2790	400	20	10/20/23	10/24/23	



Sample Data

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

Project Name: North Brushy Draw Federal 35 #012H
Project Number: 01058-0007
Project Manager: Ashley Giovengo

Reported:
10/27/2023 12:13:56PM

SS08C - 2.25'

E310187-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342092
Benzene	ND	0.0250	1	10/19/23	10/25/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/25/23	
Toluene	ND	0.0250	1	10/19/23	10/25/23	
o-Xylene	ND	0.0250	1	10/19/23	10/25/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/25/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/25/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342092
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/25/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/19/23	10/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/20/23	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		10/20/23	10/20/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2342102
Chloride	580	20.0	1	10/20/23	10/24/23	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 12:13:56PM

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 (2342092-BLK1)

Prepared: 10/19/23 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: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

LCS (2342092-BS1)

Prepared: 10/19/23 Analyzed: 10/25/23

Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	4.93	0.0250	5.00		98.7	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.2	70-130			
Total Xylenes	14.9	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.9	70-130			

Matrix Spike (2342092-MS1)

Source: E310132-14

Prepared: 10/19/23 Analyzed: 10/25/23

Benzene	4.95	0.0250	5.00	ND	99.0	54-133			
Ethylbenzene	4.86	0.0250	5.00	ND	97.1	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131			
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.2	70-130			

Matrix Spike Dup (2342092-MSD1)

Source: E310132-14

Prepared: 10/19/23 Analyzed: 10/25/23

Benzene	5.11	0.0250	5.00	ND	102	54-133	3.12	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	3.29	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	3.20	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	3.23	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	3.09	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	3.14	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 12:13:56PM

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 (2342092-BLK1) Prepared: 10/19/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			

LCS (2342092-BS2) Prepared: 10/19/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2342092-MS2) Source: E310132-14 Prepared: 10/19/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2342092-MSD2) Source: E310132-14 Prepared: 10/19/23 Analyzed: 10/25/23

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.0	70-130	3.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 12:13:56PM

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 (2342115-BLK1) Prepared: 10/20/23 Analyzed: 10/20/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			

LCS (2342115-BS1) Prepared: 10/20/23 Analyzed: 10/20/23

Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike (2342115-MS1) Source: E310181-06 Prepared: 10/20/23 Analyzed: 10/20/23

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

Matrix Spike Dup (2342115-MSD1) Source: E310181-06 Prepared: 10/20/23 Analyzed: 10/20/23

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132	4.17	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/2023 12:13:56PM

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 (2342102-BLK1)					Prepared: 10/20/23 Analyzed: 10/24/23				
Chloride	ND	20.0							
LCS (2342102-BS1)					Prepared: 10/20/23 Analyzed: 10/24/23				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2342102-MS1)					Source: E310132-06		Prepared: 10/20/23 Analyzed: 10/24/23		
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2342102-MSD1)					Source: E310132-06		Prepared: 10/20/23 Analyzed: 10/24/23		
Chloride	250	20.0	250	ND	99.9	80-120	1.70	20	

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



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	North Brushy Draw Federal 35 #012H	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	10/27/23 12:13

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



Envirotech Analytical Laboratory

Printed: 10/20/2023 10:59:29AM

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:	Devon Energy - Carlsbad	Date Received:	10/20/23 08:10	Work Order ID:	E310187
Phone:	(505) 382-1211	Date Logged In:	10/19/23 16:59	Logged In By:	Caitlin Mars
Email:	ashley.giovengo@wescominc.com	Due Date:	10/26/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX F

Email Correspondence

From: [Ashley Giovengo](#)
To: [Enviro, OCD, EMNRD](#); [Morgan, Crisha A](#)
Cc: [Raley, Jim](#); [Cole Burton](#); [Chad Hamilton](#)
Subject: 48-hour Confirmation Sampling Notification Email - North Brushy Draw Federal 35 #012H - Incident Numbers nAPP2302534751 & nAPP2232043831
Date: Tuesday, September 5, 2023 2:44:03 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello,

We intend to collect confirmation samples at Devon Energy's North Brushy Draw Federal 35 #012H site (Incident Numbers nAPP2302534751 & nAPP2232043831) on Thursday, September 07, 2023, at 09:00 am MST.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 282053

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 282053
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed.	2/26/2024