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	nOY1727952679
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: Jim.Raley@dvn.com	Incident # (assigned by OCD): nOY1727952679
Contact mailing address: 5315 Buena Vista Drive, Carlsbad NM	·

Location of Release Source

Latitude 32.64457 (NAD 83 in a	Longitude -103.44839 decimal degrees to 5 decimal places)
Site Name: Toro 22-3	Site Type: Well Pad
Date Release Discovered: 9/21/2017	API# (<i>if applicable</i>): 30-025-35253

τ	Unit Letter	Section	Township	Range	County
	K	22	19S	35E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Materia	Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)			
Produced Water	Volume Released (bbls): 120	Volume Recovered (bbls): 110			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			

Cause of Release:

The cause of this spill is equipment failure; corroded tank. Approximately 120 bbls of produced water were spilled inside the dirt SPCC containment. 110 bbls were recovered with a vac truck.

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

Page	2
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Oil Conservation Division

Incident ID	nOY1727952679
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by		
19.15.29.7(A) NMAC?	Unauthorized release of a volume, excluding gases, of 25 barrels or more.	
X Yes 🗌 No		
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
Immediate notice was given by Karolina Blaney, to EMNRD Olivia Yu, on September 21, 2017 via email.		

Initial Response

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

 \square The source of the release has been stopped.

X The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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.

Title: Environmental Professional
Date:
Telephone:575-689-7597
Date:

Page 3

Oil Conservation Division

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Incident ID	nOY1727952679
District RP	
Facility ID	
Application ID	

Page 2 of 129

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> <50 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- X 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.

Received by OCD: 7/26/	2023 10:20:59 AM State of New Mexico				Page 4 of 1
				Incident ID	nOY1727952679
Page 4 Oil Conservation I	Oil Conservation Division	vation Division		District RP	
				Facility ID	
				Application ID	
regulations all operators a public health or the envire failed to adequately inves addition, OCD acceptance and/or regulations.		otifications a e OCD does areat to grou of responsib 	nd perform cc not relieve the ndwater, surfa ility for comp Environt 7/26/2023	prective actions for rele operator of liability sh ce water, human health	eases which may endanger ould their operations have or the environment. In ederal, state, or local laws
OCD Only Received by: <u>Shelly W</u>	/ells	_	Date: <u>7/27/2</u>	2023	

Received by OCD: 7/26/2023 10:20:59 AM State of New Mexico Oil Conservation Division

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

Incident ID	nOY1727952679
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Professional Printed Name: Jim Raley Signature: fin Rely 7/26/2023 Date: email: Jim.Raley@dvn.com_____ Telephone: 575-689-7597 OCD Only Received by: Shelly Wells Date: <u>7/27/2023</u> Approved Approved with Attached Conditions of Approval Denied Deferral Approved Nelson Velez Date: 07/31/2023 Signature:

Page 5



REMEDIATION WORK PLAN

Toro 22-3

Lea County, New Mexico Incident Number nOY1727952679

Prepared for: WPX Energy Permian, LLC

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



SYNOPSIS

In response to a meeting with New Mexico Oil and Conservation Division (NMOCD) for the denial of a Remediation Work Plan (RWP), Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following updated RWP detailing additional delineation soil sampling activities at the Toro 22-3 (Site) associated with an inadvertent release of produced water. The previous RWP was denied on June 20, 2023, due to the following reasons:

"1. Site assessment has not been fully delineated horizontally or vertically. 2. Site characterization data incomplete. Please provide supporting documentation for those items missing from the list on page 3 of Form C-141 in next submittal or final closure report. 3. Once bullet #1 has been achieved, operator is required to re-submit its revised remediation plan or final closure report. 4. Operator has 90 days (September 18, 2023) to fully delineate, re-submit its remediation plan, or submit final closure report.

• Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation."

Etech met with Mr. Nelson Velez from NMOCD on June 22, 2023, following the denial to discuss the Site and recommended action items in an updated report. This updated RWP details the summary of remedial actions that will be completed in accordance with communication and requests from Mr. Nelson Velez:

- Mr. Velez requested the advancement of two additional delineation points within the Area of Concern (AOC) to confirm if the variance requested chloride concentration of 654 milligram per kilogram (mg/kg) for PH01 was representative of that depth. Mr. Velez instructed to advance to the same total depth of 21 feet below ground surface (bgs);
- Mr. Velez agreed that horizontal delineation of the subject release can be defined via sidewall confirmation sidewall sampling; and
- Mr. Velez confirmed that if concentrations were below 600 mg/kg at 21 feet bgs for additional both samples collected, Etech could resubmit an updated RWP with the original proposed work plan which detailed: the removal of the top four feet of impacted soil within the AOC, achieving lateral delineation via sidewall confirmation sampling, installing a 20-mil liner at the base of the 4 foot excavation, and backfilling with clean topsoil.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit K, Section 22, Township 19 South, Range 35 East, in Lea County, New Mexico (32.64457°, -103.44839°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1** in **Appendix A**).

On September 21, 2017, corrosion of a storage tank resulted in approximately 120 barrels (bbls) of produced water to be released into a tank battery earthen containment. Vacuum trucks were immediately dispatched and recovered approximately 110 bbls of the released fluids. WPX reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on October 6, 2017, and was subsequently assigned Incident Number nOY1727952679. WPX mapped the release extent utilizing a handheld Trimble® Global Positioning System (GPS) unit immediately after discovery and is presented as the AOC on **Figure 2** in **Appendix A**.



Between September 28 and October 2, 2017, WPX removed the production tanks and excavated the top 1-foot of impacted soil from the AOC to mitigate immediate impacts. A Closure Report was then submitted by WPX and denied due to incomplete soil characterization as a result of equipment refusal. The excavation was backfilled and recontoured to pre-existing conditions before returning the production tanks. On June 12, 2018, Souder Miller & Associates (SMA) conducted continued characterization activities to evaluate soil impacts within the AOC. Based on the data summary from those events, additional delineation activities appeared warranted. Previous remediation summaries can be referenced in the original reports submitted to the NMOCD. Since initial response efforts, plugging and abandonment activities at the Site were completed in 2022.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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

The initial desktop review referencing the *NMOCD Oil and Gas Map* and/or the *USGS National Water Information System: Mapper* indicated the nearest permitted groundwater well with available data was United States Geological Survey (USGS) well 323832103264901. The location of the well was approximately 675 feet south of the Site and is approximately 4 feet lower in elevation. The most recent depth to groundwater measurement from 1991 was documented at 16.82 feet bgs. However, further review of aerial imagery revealed that the well did not appear to be located at the GPS location designated by USGS (32.6423, -103.4474). As a result, Etech conducted a field verification survey for the well that included walking 50-meter transects within a 500-foot radius of the coordinates. No visual evidence of USGS well 323832103264901 was found. The walking path during field verification was mapped via Trimble® and is included in **Figure 2** in **Appendix A.** Photographic documentation during field verification activities is included in **Appendix B**.

Another water well identified during the desktop review was New Mexico Office of the State Engineer (NMOSE) well L-04290, located approximately 917 feet north of the Site. Depth to groundwater was documented at 18 feet bgs in 1959. However, records indicate the well was permitted for "secondary recovery of oil" via "water flooding" and has since been capped and is no longer in use. As such, NMOSE well L-04290 appeared to be restricted to oil and gas operations and never used as a "fresh water" well, therefore, the proximity of the well to the Site alone does not deem the well protectable.

The next closest water well with data is NMOSE well L-15155 POD 1, located approximately 1,445 feet south of the Site and approximately 5 feet lower in elevation. The well has a reported depth to groundwater of 35 feet bgs from 2021. Based on this information and findings from the regional water well review, groundwater depth at the Site is estimated to be less than 50 feet bgs. All well records referenced for depth to groundwater determination are included in **Appendix C**.



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

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

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria
Chloride	Environmental Protection Agency (EPA) 300.0	600 mg/kg
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

DELINEATION SOIL SAMPLING ACTIVITIES

On January 4, 2023, a third-party environmental contractor was retained to reassess the Site based on information provided by WPX and continue vertical delineation activities within the AOC. Mechanical equipment advanced one pothole (PH01) to a total depth of 21 feet bgs, which was driven by field screening soil samples for volatile organic compounds (VOCs) using a photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected for laboratory analysis at 5-foot intervals starting at 0.5-foot bgs through 20 feet bgs and 21 feet bgs, where mechanical equipment limitations restricted further advancement. Field screening results and soil descriptions were denoted on a soil sampling log, which is included as **Attachment D**. The location of the delineation soil samples is shown in **Figure 3** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment B**.

On June 30, 2023, following the meeting and denial issued by NMOCD, Etech advanced two additional potholes (PH02 and PH03) with mechanical equipment equipped with greater vertical reach to further investigate vertical delineation within the AOC. Both potholes were advanced to a total depth of 21 feet bgs, which was driven by field screening soil samples for VOCs and chloride as previously described. Soil samples were collected for laboratory analyses representing the highest observed field screened concentrations and the greatest depth. Field screening results and soil descriptions were denoted on a soil sampling log, which is included as **Attachment D**. The location of the delineation soil samples was added to **Figure 3** in **Appendix A**. Photographic documentation during delineation activities is included in **Attachment B**.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for PH01 and PH02 indicated BTEX and TPH concentrations were below the Site Closure Criteria. BTEX concentrations were also below the Site Closure Criteria for PH03. TPH concentrations exceeded Site Closure Criteria for the soil sample collected at 0.5-foot bgs from sampling location PH03.

Chloride concentrations for PH01 peaked at 15 feet bgs (1,940 mg/kg) and decreased more than 65 percent (%) with further advancement. Chloride concentrations for PH02 and PH03 peaked at 10 feet bgs (1,040 mg/kg and 975 mg/kg, respectively) and decreased below the Site Closure Criteria threshold with advancement.



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

PROPOSED REMEDIATION WORK PLAN

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

- Based on laboratory analytical results, TPH concentrations exceeded Site Closure Criteria at 0.5-foot bgs from the area associated with PH03 location (302 mg/kg) but were below the laboratory detection threshold for soil samples collected below 4 feet bgs; and
- In general, chloride concentrations from delineation soil samples increased with depth between 10 and 15 feet bgs, then decreased with depth to 21 feet bgs where concentrations were below or slightly greater than Site Closure Criteria based on laboratory analytical results.
- BTEX and benzene concentrations were below the laboratory reporting limit for all analyzed soil samples.

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

- WPX initially requested a variance to accept chloride concentrations from PH01 at 20 feet (624 mg/kg) and 21 feet bgs (654 mg/kg) for vertical delineation in the original RWP. Due to the minimal difference between the applied Closure Criteria for chloride and concentrations at the terminus of PH01 (elevated by 24 mg/kg and 54 mg/kg, respectively)
- WPX believes that the current delineation is equally protective to groundwater and human health as it would be otherwise, for the following reasons:
 - i) WPX requests a variance to leave chloride impacts between 4 feet and 21 feet bgs in place, where concentrations are characterized between 1,940 mg/kg and 676 mg/kg. If WPX were to excavate to Closure Criteria with a potentially known shallow groundwater table, an excavation at such a depth could serve as a conduit to groundwater throughout the advancement of the excavation. The nearest permitted water well is NMOSE well L-15155 POD 1, located approximately 1,445 feet south of the Site, with a reported depth to groundwater of 35 feet bgs from 2021.
 - ii) Two additional potholes to the east and west of PH01 were advanced to 21 feet bgs and provide further evidence of vertical delineation within the AOC. With similar soil profiles and chloride concentration trends with depth to PH01, chloride concentrations at PH02 and PH03 increased with depth to approximately 10 feet bgs before decreasing with depth. Chloride concentrations for both PH02 and PH03 terminus soil samples were below the Site Closure Criteria. Chloride concentration for PH01 terminus soil sample uncharacteristically increased from 624 mg/kg to 654 mg/kg, which may be attributed to cross contamination from the pothole sidewalls from shallow areas.
 - iii) Additionally, the excavation footprint could potentially go beyond the proposed excavation extent to facilitate the proper safety measures required to excavate to Closure Criteria. As a result, un-impacted grounds would be excavated leading to a greater disruption of surface vegetation.
 - iv) To minimize soil disturbance in order to mitigate impacts to groundwater and vegetation, WPX requests that the top four feet of impacted soil be excavated from the AOC and a 20-mil impermeable liner installed on the excavation floor. The liner will act as a physical barrier to mitigate further migration of chloride impacts into the subsurface. Removal



of the top four feet will address any hydrocarbon exceedances from PH03. The proposed excavation is presented on **Figure 4** in **Appendix A**. The excavation will extend laterally until confirmation soil sample results from the sidewalls of the excavation meet Closure Criteria and will provide horizontal delineation of the release. Confirmation sidewall soil samples will represent a maximum of 200 square feet per soil sample. Samples will be submitted for laboratory analyses of chloride, TPH and BTEX. Residual chloride impacts within the subject release area are defined by samples collected from PH01, PH02, and PH03 from depths ranging from 4 feet to 18 feet bgs. As a result, confirmation floor soil samples will not be collected.

v) Due to the proximity of the AOC to the southern pasture, there is potential for the lateral excavation extent to extend beyond the pad boundary. In such a case, access for remediation or disturbance that occurs offsite will require landowner approval with additional coverage. WPX will prepare and submit documentation for additional work areas before initiating corrective actions.

Once remediation is complete and receipt of soil confirmation results indicates impacted soil is removed, the excavation will be backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Inna Byers

Anna Byers Senior Geologist

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, Devon New Mexico Oil Conservation Division



Appendices:

Appendix A	Figure 1: Site Map
	Figure 2: Groundwater Well Field Verification
	Figure 3: Delineation Soil Sample Locations
	Figure 4: Proposed Excavation Area
Appendix B	Photographic Log
Appendix C	Referenced Well Records
Appendix D	Lithologic Sampling Logs
Appendix E	Tables
Appendix F	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix G	NMOCD Correspondence

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APPENDIX A

Figures

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





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APPENDIX B

Photographic Log

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







Photograph 1Date: 01/04/2023Description: View of the Site during delineation
activies.



Photograph 3Date: 01/04/2023Description: View of the Site following delineation
activites.

PHOTOGRAPHIC LOG WPX Energy Permian, LLC Site Name: Toro 22-3 Incident Number: nOY1727952679



Photograph 2Date: 01/04/2023Description: View of the Site during delineation
activites.



Photograph 4Date: 06/30/2023Description: View of the Site during delineation
activities.



APPENDIX C

Referenced Well Records

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





National Water Information System: Web Interface USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- 🔹 Full News 🔕

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323832103264901

Minimum number of levels = 1Save file of selected sites to local disk for future upload

USGS 323832103264901 19S.35E.22.14341

Lea County, New Mexico Latitude 32°38'32", Longitude 103°26'49" NAD27 Land-surface elevation 3,742 feet above NAVD88 The depth of the well is 45 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1963-03-19		D	62610		3723.94	NGVD29	1	Z			Α
1963-03-19		D	62611		3725.50	NAVD88	1	Z			A
1963-03-19		D	72019	16.50			1	Z			A
1966-03-18		D	62610		3723.43	NGVD29	1	Z			A
1966-03-18		D	62611		3724.99	NAVD88	1	Z			А
1966-03-18		D	72019	17.01			1	Z			А
1971-01-27		D	62610		3723.76	NGVD29	1	Z			А
1971-01-27		D	62611		3725.32	NAVD88	1	Z			А
1971-01-27		D	72019	16.68			1	Z			А
1976-01-29		D	62610		3724.17	NGVD29	1	Z			А
1976-01-29		D	62611		3725.73	NAVD88	1	Z			А
1976-01-29		D	72019	16.27			1	Z			А
1981-01-23		D	62610		3723.90	NGVD29	1	Z			А
1981-01-23		D	62611		3725.46	NAVD88	1	Z			А
1981-01-23		D	72019	16.54			1	Z			А
1986-02-04		D	62610		3723.90	NGVD29	1	Z			А
1986-02-04		D	62611		3725.46	NAVD88	1	Z			A
1986-02-04		D	72019	16.54			1	Z			А
1991-04-17		D	62610		3723.62	NGVD29	1	Z			А
1991-04-17		D	62611		3725.18	NAVD88	1	Z			А
1991-04-17		D	72019	16.82			1	Z			А

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Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988

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Page 24 of 139

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2023-05-11 16:40:27 EDT 0.29 0.26 nadww01



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

			the second s								
NOI	OSE POD NO L- 15155	•	NO.)		WELL TAG ID NO. 20EC2			OSE FILE NO(L- 15155 PC			
OCATI	WELL OWN George L.		(S) L&K Ranch LLC					PHONE (OPTIC 214 738 204	S		
GENERAL AND WELL LOCATION	WELL OWN PO Box 1:		NG ADDRESS					city Hobbs		state NM 88241-1	ZIP 503
P	WELL	T	D	EGREES	MINUTES	SECON	DS				
ΓŊ	LOCATIO)N T	ATITUDE	32	38	25	N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
NERA	(FROM GI	PS)	LONGITUDE	-103	26	59		* DATUM REG	QUIRED: WGS 84		
1. GEI	1		TING WELL LOCATION TO 22 T 19S R 35E	O STREET ADDI	RESS AND COMMON	LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	IERE AVAILABLE	
	LICENSE NO).	NAME OF LICENSEI	DRILLER					NAME OF WELL DR	ILLING COMPANY	
	WD-	1626			Roy Taylor				Ro	y Taylor Drilling	
	DRILLING S 11/19/		DRILLING ENDED 11/19/2021	DEPTH OF CO	MPLETED WELL (FT) 69')		LE DEPTH (FT) 69'	DEPTH WATER FIR	ST ENCOUNTERED (FT) 35'	1
N	COMPLETE	D WELL IS	S: ARTESIAN	DRY HOI	E SHALLOW	V (UNCON	NFINED)		STATIC WATER LEV	VEL IN COMPLETED WE 35'	ELL (FT)
DIT	DRILLING F	LUID:	AIR	MUD	ADDITIVE	S - SPEC	IFY:	and a second	L		
CASING INFORMATION	DRILLING M	IETHOD:	r ROTARY	HAMME	CABLE TO	OL	OTHEI	R – SPECIFY:			
NFC	DEPTH	(feet bgl)) BORE HOLE	CASING	MATERIAL AND/	OR	CA	SING	CASING	CASING WALL	SLOT
19	FROM	ТО			GRADE	.		ECTION	INSIDE DIAM.	THICKNESS	SLOT
VISI			(inches)		each casing string, a sections of screen)	and		YPE ing diameter)	(inches)	(inches)	(inches)
	0	29'	12 1/4"		PVC			Glue	6.115	.255	NA
2. DRILLING &	29'	69'	12 1/4"		PVC		(Glue	5.993	.316	.032
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	DEPTH	(feet bgl)	DORE HOLL		ST ANNULAR SEA				AMOUNT	METHO	
ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE-F	RANGE	BY INTE	RVAL	(cubic feet)	PLACEN	IENT
TER	0	20'	12 1/4"		Bente				11.78	Pourd	
MA	20'	29'	12 1/4"		Gra				5.3	Pourd	
AR	29'	69'	12 1/4"		8/16 Sili	ica Sand			23.53	Pourd	ed
1											
э.											
									L		
FOR	OSE INTER	NAL US	E					WR-20) WELL RECORD &	& LOG (Version 04/3	0/19)

FILE NO. L-1 SISS	POD NO.	TRN NO. 696567
LOCATION 195-35E-22	3.3.4	WELL TAG ID NO. 2 OFC 2 PAGE 1 OF 2

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			1								
	DEPTH (TO	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF MATERIAL TER-BEARING CAVITIES Ipplemental sheets to fully	OR FRA	CTURE ZONE	s		TER LING? / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	1'	1'		Top Soil				Y	🖌 N	
	1'	10'	9'		Caliche				Y	🖌 N	
	10'	15'	5'		Rock				Y	🖌 N	
	15'	35'	20'		Sand Stone				✔ Y	N	
	35'	50'	15'		Sand		na anna an an Anna an A		✔ Y	N	
J	50'	69'	19'		Red Clay		*********		Y	🖌 N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
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TEST; RIG SUPERVISI	MISCELLA	NEOUS IN	FORMATION:				ſ	IS E D	II DEC	7 2021	. m1 :36
5. TEST	PRINT NAM	IE(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONSITE SUPERV	ISION O	F WELL CON	STRUC	CTION O	THER TH	IAN LICENSEE:
SIGNATURE	RECORD OI	THE ABC	DVE DESCRIBED	WELL. I ALSO CER	DF MY KNOWLEDGE A TIFY THAT THE WELL T HOLDER WITHIN 30 DA	AG, IF R	EQUIRED, HA	S BEEN	N INSTA	LLED AN	ND THAT THIS
6. SIGNA	Ro	y Ta	ylon		Roy Taylor				12/5	/2021	
		/SIGNA7	URE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
FOF	R OSE INTERN	AL USE					WR-20 WF	LREC	ORD &	LOG (Ve	rsion 04/30/2019)
	E NO.	1515	5	1979 - 1979 - 1979 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 -	POD NO.		TRN NO.	59	650		(101 04 50 2019)
LOO	CATION	75-7	35E-2	2	3.3.4	WELI	, TAG ID NO.	2°	OF	2	PAGE 2 OF 2



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WR-15 IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

1.	Name of applicant C. W. TRAINER	
	Postoffice addressP. 0. Box 2222 ; City or Town Hobbs	-,-
	County of Lea, State of New Mexico	
2.	Source of water supply	
	(state whether artesian or shallow ground water basin) located in Lea County Underground Basin	
	(name of underground stream, valley, crtesian basin, etc.)	
3.	The well is to be located in the $SW/4$ $\frac{SE/4}{10}$ $\frac{NW/4}{10}$	
	of section 22 , Township. 19 South , Range 35 East ,	N. M .
	on land owned by State of New Mexico	
4.	Description of well: driller Ed Burke ;WD No. 111 ; depth to be drilled 50	
	diamenter (outside) of casing 7 inches; type of pump and power plant t	
	Pump jack with industrial engine	
5.	Quantity of water to be appropriated and beneficially used three (3) (feet depth or acre feet per acre)	
	forOil well drilling	purp
6.	Acreage to be irrigated None	a
	located and described as follows (describe only lands to be irrigated):	
	Acres	
	Subdivision Sec. Twp. Range Irrigated Owner	
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		100
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		. Jan B
		<u></u>
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	(Note: location of well and acreage to be irrigated must be shown on plat on reverse side.)	
7.	Time required to commence construction as soon as possible	
	Time required to complete the works lyear	
	Time required to fully apply water to beneficial use <u>not required</u>	
8.	Additional statements or explanations (including data on any other water rights appurtenant to above	lands)
	Signal State No. 1	
	This corrected Application is being filed to	
	show the location of the well in the proper place	•
	I,, being first duly sworn upon my oat	h, de
	d say that I have carefully read the foregoing statement and each and all of the items contained therein, e same are true to the best of my knowledge and belief.	
τ h (All and	
	- 10 name	applic
	bscribed and sworn to before me this 17th day of January , A.D.	, 19_(
Sui	A. D.	
	Commission expires January 23, 1963 Virginia Just	s/

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APPROVAL OF THE STATE ENGINEER

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Secs. 1-4—Fill out all blanks fully and accurately.

Sec. 5-Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6-Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object. \mathbf{i}

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

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WR-15

IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THE

APPLICATION FOR PERMIT

Page-29 of 139

8. \$5

To Appropriate the Underground Waters of the State of New Mexico

LEA COUNTY U	INDERGROI	UND BASTN		the second
Application No. L-4290 Book LC	-17 Dat	e Received	October 2, 1	959
1. Name of applicant C. W. Trainer				
Postoffice address Box 2222				
County of Lea				
2. Source of water supply	ow grou	nd water]	oasin	<u></u>
located in Lea County Unde	raround	Basin		
(name of undergr	ound stream, va	lley, Ertesian basin,	etc.)	
3. The well is to be located in the <u>SE</u> of section <u>22</u> Township.			•	
· · · · · · · · · · · · · · · · · · ·				
on land owned by <u>State of Ne</u> by <u>State of Ne</u> bescription of well: driller <u>Ed Burke</u>				
diamenter (outside) of casing7			-	
Pump jack with indus				
	<u></u>			<u> </u>
5. Quantity of water to be appropriated and 1	beneficially u	used three	e (3)	-
forOil well drilling			eet depth or acre feet pe	
forUII well artiting			· · ·	
				acres
located and described as follows (describe on	ly lands to be	e irrigated):		
Subdivision Sec.	Twp. 1	Acres Range Irrigat	ed	Owner
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	*	<u></u> _	د	
(Note: location of well and acreage				
. Time required to commence construction		-		
Time required to complete the works				;
Time required to fully apply water to beneficia	1 use]	not requi	rea	
. Additional statements or explanations (includi	-	•	÷	
Signal State No. 1				
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· · · · · · · · · · · · · · · · · · ·				
		<u> </u>		
I. <u>C. W. Trainer</u>				
nd say that I have carefully read the foregoing he same are true to the best of my knowledge a		u each and all o	I the items contained	i therein, and that
		ייים איז ד		 -
	hv. E	frank	12. Br	applicant
00	0 y	ward	<u> </u>	Rin
ubscribed and sworn to before me this 22		day of Ser	ptember 2	-, A.D., 10-59
te commission anning Appell 13 1963		Celette	n XA	18G HUTT

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Page 30 of 139

APPROVAL	OF	THE	STATE	ENGINEER
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Number of this permit-	L-4290	Date received corrected	
		Publication of notice ordere	d
Page	4290	Name of paper	
Application received —	October 2, 1959	Affidavit of publication filed	
Date returned for correc	tion	Date of approvalOC	tober 5, 1959
		3	
subject to all prior valid	and existing rights to the us	e of the waters of said undergrou	und source and provided that
		of the State Engineer pertaining t OD and depth not to exc	
ogallala. (2) Appropriation not	to exceed 3 acre feet	per acre for
domestic and	oil well drilling o	perations. (3) Well to	be plugged upon
completion of	f oil well drilling	operations and plugging	report to be
			- · · · · · · · · · · · · · · · · · · ·

filed on or before one year from the date of approval of this permit.

Plugging record to be filed on or before

Water shall be applied to beneficial use and proofs filed on or before ------

This is to certify that I have examined the above application for permit to appropriate the underground waters

October 5, 1960

of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions. Witness my hand and seal this <u>5th</u> day of <u>October</u>, A.D., 19 59 S.E. Reynolds

LOCATE WELL AND ACREAGE TO BE IRRIGATED AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT: Section (s)______22____, Township____19_South_, Range____35_East____, N.M.P.M.

0

By <u>Aller M. M. M. Bon</u> Delbert W. Nelson Office Supervisor District II

State Engineer

0-well site

INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project,

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

a Anton G

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

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Received by OCD: 7/26/2023 10:20:59 AM

Page 31 of 139

o

_feet:

acres

1961 WR - 15WR-15 IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM AM 8:25 **APPLICATION FOR PERMIT** FICE To Appropriate the Underground Waters of the State of New Mexico LEA COUNTY UNDERGROUND WATER BASIN L-4290 LC-17 Book January 9. 1961 Application No.__ Date Received. 90 O C. W. TRAINER 1. Name of applicant P. O. Box 2222 Hobbs _; City or Town . Postoffice address____ Lea New Mexico County of. ..., State of _ or shallow ground water basin) Lea County underground basin located in. (name of underground stream, valley, crtesian basin, etc.) 3. The well is to be located in the SW/4SE/4 _____, Township. _____19-South 35-East 22 N.M.P.M. of section____ Rang State of New Mexico on land owned by-----4. Description of well: driller Ed Burk ;WD No. 111 ; depth to be drilled. 45 7* diamenter (outside) of casing____ Turbine - Probably with electric motor 5. Quantity of water to be appropriated and beneficially used 100 net acre feet per annum Water Flood of Pearl Queen Field - T-19S, R-35E for purposes None 6. Acreage to be irrigated... located and described as follows (describe only lands to be irrigated): 3 Sec. Subdivision TWD Range Owner Irrigated 11. U N State of New Mexico σ Office of State Engineer E.L Whereas, the rights under this filing 141 have lapsed and notice having been given as йч. per the Rules and Regulations of the State Engineer, this permit No. 1 42 90 2 30 111 +6 is hereby cancelled this 5 day of 10 111 A. D. 1966 S. E. REYNOLDS, Side Engine á. By Ona 121. na ഗ Water Rights Division (Note: location of well and acreage to be irrigated 2 1 year 7. Time required to commence construction ç0 2 2 years Time required to complete the works. õ ٣Ť 2 years Time required to fully apply water to beneficial use. 8. Additional statements or explanations (including data on any other water rights appurtenant to above lands) We have filed Application No. L-4290, Book LC-17, October 2, 1959,

for this water well and we used it for drilling our oil wells on this same Section. Log is on file.

C. V. TRAINER

Ï. , being first duly sworn upon my oath, depose and say that I have carefully read the foregoing statement and each and all of the items/contained therein, and that the same are true to the best of my knowledge and belief. nauen , applicant 23

A. D., 1961 6th January Subscribed and sworn to before me thisday of. in 1 My Commission expires January 23, 1963 tary Public.



Page 32 of 139

•	1 a / *				Name of	paper_	Hobbs	Daily	ap. 19, 1961 News-Sun
pplication received- Date returned for cor									bruary 9, 1961
This application i									acre feet of water
							under		ource and provided that
	an a				and the first				drilling of wells
Appropriation	limited	to 10)0 acr	feet	per an	num fr	om al	l sour	ces combined.
A totalizing readings shal									
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Works shall be co				·			. <u> </u>		
Water shall be ap	plied to h	eneficial	use and	proofs file	ed on or				
		shi							the underground waters
of the State of New									
Witness my hand					day of_				, A. D., 19_62.
			°		S. E.	Reyno	lds		State Engineer
LOCATE METERNI	JAUKLA	JE TO D	E IKKIG	ALED A	S'ACCUB	ATELY	AS POS	SIBLE O	N FOLLOWING PLAT:
								2	n following plat: East, <u>n.m.p.m.</u>
								2	
								2	
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								2	East , N.M.P.M. By J. E. Cray, English
								2	East, N.M.P.M.
Section								2	East , N.M.P.M. By J. E. Cray, English
								2	East , N.M.P.M. By J. E. Cray, English
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Section								2	East , N.M.P.M. By J. E. Cray, English
Section								2	East , N.M.P.M. By J. E. Cray, English

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

 $\sum_{k=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{i=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{j=1}^{n-1}\sum_{$

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

1

MEMORANDUM OF RECOMMENDATIONS

FILE NO:	L-4290 DATE: May 13, 1966
то:	Frank E. Irby, Chief, Water Rights Division
FROM:	Fred H. Hennighausen, Supervisor, District II
SUBJECT:	Cancellation of Permit No. L-4290
APPLICANT:	C. W. Trainer
WELL:	SUBDIVISIONSECTIONTOWNSHIPRANGESW2SE2NW222198.35E.
USE:	Water flood of Pearl Queen Field in Township 19 South, Range 35 East.
REASON:	Applicant states. "I am going to let this expire on May 31."
CONSIDERATIONS:	Permit Mo. L-4290 was approved May 21, 1962 for 100 acre sect to be used for the secondary recovery of oil. Well No. L-4290 was an existing well.
6	The applicant returned our letter of April 8, 1966 with a notation that he will let the permit expire on May 31, 1966.
RECOMMENDATIONS:	It is recommended that Permit No. L-4290 be cancelled at the request of the applicant.

Fred H. Hennighausen District II Supervisor

ECB*j1 encl.

MEMORANDUM OF RECOMMENDATIONS

FILE NO:	L-4290 DATE: May 18, 1962
TO:	Frank E. Irby, Chief, Water Rights Division
FROM:	Fred H. Hennighausen, Supervisor, District II
SUBJECT:	Application to appropriate shallow waters for water- flood purposes No. L-4290.
WELL:	SUBDIVISIONSECTIONTOWNSHIPRANGESW4SE4NW42219-535-E
REASON:	Water Flood of Pearl Queen Field - Township 19 South, Range 35 East.
CONS IDERATIONS :	 According to the priority sheet and Yates' figure of available water, Township 19 South, Range 35 East has 133 acre feet of available water before reservation for E-4290.
	 Application L-4815 is also pending, however, this application was filed after application L-4290. There are no other applications pending in this township and range.
	3. According to the attached inter-office memorandum dated February 23, 1961, a well in this area may be expected to produce 10-150 gallons per minute which is sufficient for the appropriation requested.
	4. Affidavit of publication and application were for- warded to the Santa Fe office February 29, 1961. Engineering report previously sent to Santa Fe included Files L-4577 through L-4577-X-3, which have been withdrawn, and the applicant has filed a new report for application L-4290.
	 There are no other permits for the secondary recovery of oil that include the W2NE¹/₂ & E2NW¹/₄ of Section 22, Township 19 South, Range 35 East.

RECOMMENDATIONS:

Approval is recommended.

Fred H. Hennighausen Supervisor, District II

ECB*jd encl.

Released to Imaging: 7/31/2023 7:52:00 AM

C. W. TRAINER

P. D. BOX 2222

PHONE EX 7-1518 205 NORTH LINAM STREET

HOBBS, NEW MEXICO April 30, 1962

New Mexico State Engineer P. O. Box 1717 Roswell, New Mexico

Re: File L-4290 Your letter of April 27, 1962

Attention: E. C. Barry

Dear Mr. Barry:

I submit this engineering report to supplement my letter of April 27, 1961, as you requested. It is intended to limit and justify the 100 acre feet per annum for use on my four wells in the N/2, Sec. 22-19S-35E and any necessary offset wells to mine.

- 1. The anticipated quantity of oil that will be recovered from my four wells as a result of this flood is 400,000 barrels.
- 2. The estimated quantity of water that will be required to complete this waterflood is 900 acre feet.
- 3. There will probably be 2 injections wells on my lease and 4 offsets.
- The maximum anticipated rate of injection per well is 620 barrels per day.
- 5. The maximum estimated quantity of water to be used in a 12 month period is 100 acre feet.
- 6. Estimated total water that will be recovered and reinjected is 150 acre feet.
- 7. Pearl Queen only.
- 8. My leases are E/2 NW/4 and W/2 NE/4, Sec. 22-19S-35E. Of course, offsetting injection wells must be considered.
- 9. The primary use of this water will be for my own leases and those adjacent to mine.
- 10. The nearest available salt water is 10 miles east, or perhaps 5 miles north.
- 11. Answered in 8 above.
- 12. None of this water is to be used for domestic purposes.

I trust this is the information you require.

Yours very truly Ģ

CWT:vp

Gene Gray

October 17, 1961

Fred H. Hennighausen File No. L-4290 Field check of October 12, 1961, disclosed that Well L-4290 was not in use and that a steel cap has been welded over the well casing. Fred H. Hennighausen Supervisor, District II

ECB*jd
ROUTING SLIP

(Basin) or (County) To: Field Supervisor Applicant anny From: Land Location 0-9-61 Date: Field Check Requested For the Following Reasons Proof of Completion of Works..... Proof of Beneficial Use..... Declaration..... Extension of Time..... Illegal Irrigation.... Supplemental Well..... Leakage Test..... Cementing (water-oil)..... Reduction from Irr. or Dom. Pressure Test..... Inspect Casing line 3 19 R.35 R. 35 Sec. 27 T. Sec. Т. 19 15 240 SE4Sh Old Well (plugged-retained-reduced) REMARKS: WI 290 V 245834 45834 フ A \leq -5W4 as St. Date: Вy File No. Location No.

WR-36

Page 38 of 139

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FIELD REPORT FOR CEMENTING OF WELLS

Name of Applicant
Name of Well
Driller's Name
Drilling Method
CASING DATA: Surfacefeet ofinch. Grade
Inspected byon
(Approved)(Rejected)
Water stringfeet ofinch. Grade
Inspected by on
(Approved)(Rejected)
Oil stringfeet ofinch. Grade
Inspected byon
(Approved)(Rejected)
CEMENTING PROGRAM: Cemented bySupervised by
Type of shoe usedFloat collar used
Bottom three joints weldedCement: around shoesks
around casingsksAdditives
Size of holeSize of casingsks. of cement required
Plug pumped down (a.m.)(p.m.)
Cement circulated No. of sacks
Temp. survey ran (a.m.)(p.m.) Cement at feet
Temp. survey ran (a.m.)(p.m.) Cement at fee
Checked for shut off (a.m.) (p.m.)
· · · · · · · · · · · · · · · · · · ·
Method used Supervised by Checked for shut off (a.m.) (p.m.)
Method usedSupervised by
REMARKS:

-

STATE ENGINEER O. ICE
MEMO
DATE 10-3-61
TO: Barry
() For Your Information () Note & Return
() For Your Files () Circulate
K For Your Handling ()
REMARKS: a review of this file
indicates that 1-4290 should
have been plugged 10-5-60. There
is nothing in our file to
show that Trainer has the
right to use this well for
ail well dilling surgered
during 1961x Clean advice
Sene

·* ·}

C. W. TRAINER

7. 3. 80X 3232 2005 NORTH LINAM #798222 HOBBS, NEW MEXICO

April 27, 1961

State Engineer Office P. O. Box 810 Rosvell, New Mexico

> Re: Files L-4290; L-4577; L-4577~X; L-4577-X-2; L-4577-X-3 Your letter of February 27, 1961

Attention: Mr. E. C. Barry

Gentlemen:

The following answers are submitted in answer to the questions asked in the captioned letter.

- The anticipated quantity of oil that will be recovered as a 1. result of this flood is 12,000,000 barrels.
- The estimated quantity of water that will be required to . 2. complete this waterflood is 60,000,000 barrels or 7800 acre feet.
- There will probably be about 65 injection wells ultimately. 3. The maximum anticipated rate of injection per well is 620 4. barrels per day.
- The maximum estimated quantity of water to be used in a 12 5. month period is 1940 acre feet. Since my applications only cover 600 acre feet, the answer to this question is 600 acre feet.
- Estimated total water that will be recovered and reinjected is 10,000,000 barrels and this is really a guess. You can 6. see from 5 above though that we will want to reuse all we can.
- Pearl Queen only. 7.
- This field is located in Township 19-South, Range 35-East, 8. Sections 15, 21, 22, 27, 28, 29, 30, 31, 32, 33, and 34; Township 19-South, Range 34-East, Sections 25 and 36; Township 20-South, Range 35-East, Sections 3, 4, 9, and 10.

Page -2-April 27, 1961 C. W. Trainer

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9.		•	producing wells in this
	4	to drill about 4 more	0
	making a study	now to determine when	we should begin a pilot
	flood.		

- 10. Shell is reinjecting their salt water now, about 500 barrels per day as a combination disposal, repressuring project. The nearest available salt water in any quantity is in the Monu-ment Field about 10 miles east of Pearl.
- 11. Answered in 8 above.
- None of the water appropriated under these applications is to be used for domestic purposes. 12.

I trust this answers all your questions. If I can be of any further help, please advise.

Yours very truly,

C. W. Prainer

CWT:vp

Original of Poor Quality

1991 (TR 23 111 200

Mr.			Trainer	
	P.	0.	Box 2222	
	Hol	bbs	, New Mexico	

Dear Sir:

The following notice shall	be published at applicant's	expense once a week f	for three (3) consecutive weeks in the

, New Mexico

Hobbs Flare or Hobbs Daily News-Sun

Roswell

a newspaper published at

WR-20 (Rev. 9/58)

Page 42 of 139

Hobbs, New Mexico, or in any other newspaper of general circulation in the county wherein the proposed well will be located. First publication should be made within ten (10) days from the date hereon, Publisher's affidavit of proof of such publication must be filed with the State Engineer not later than ten (10) days from the date of last publication. Failure to file proof of publication within the time allowed will render the application subject to cancellation.

The accuracy as to the content of this Notice is the responsibility of the applicant and the State Engineer is not obligated for any additional expense incurred by the necessity of readvertisement.

Neither issuance of this Notice, nor lack of protest thereto, in any way indicates favorable action by the State Engineer or approval of the application as requested.

NOTE TO PUBLISHER: Immediately after last publication cation with the State Engineer, P. O. Box 810 ,		
N O State Eng	TICE ineer's O	
Number of Application L-4290		
Notice is hereby given that on the9th	day of	January , 19 <u>61</u> , in
accordance with Chapter 131 of the Session Laws of 1931,		C. W. Trainer
of Con	unty of	Lea

State of ________, made application to the State Engineer of New Mexico for a permit to appropriate 100 acre feet per annum of the Lea County Underground Water Basin by commencing the use of existing well No. L-4290 located at a point in the SW1SE1NW1 of Section 22, Township 19 South, Range 35 East, N.M.P.M., to be used for the secondary recovery of oil by waterflooding in the Pearl Queen Field, Township 19 South, Range 35 East.

Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will be truly detrimental to their rights in the waters of said surface and/or underground source, may protest in writing the State Engineer's granting approval of said application. The protest shall set forth all protestant's reasons why the application should not be approved and shall be accompanied by proof that a copy of the protest has been served upon the applicant. Said protest and proof of service must be filed with the State Engineer within ten (10) days after the date of the last publication of this notice. Unless protested, the application will be taken up for consideration by the State Engineer on that date, being on or about the

_____ day of _____, 19 _____, S. E. Reynolds _____, State Engineer

NOTE TO PUBLISHER: Fill in date to correspond to date 10 days after date of last (third) publication. Sundays and holidays not included if this date falls on one of them.



Form WR-23

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STATE ENGINEER OFFICE

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WELL RECORD

IGNAL

ge <u>44</u> of 139

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

Section 1	(A) Owner of well C. W. Trainer	
	Street and Number Box 2222 City Hobbs	
	Well was drilled under Permit No. <u>36 14 SW 14 NE</u> 4 of Section 22	
	(B) Drilling ContractorEd Burke Street and Number Box 306	
	City	
	Drilling was commenced Drilling was completed	

(Plat of 640 acres)

Elevation at top of casing in feet above sea level..... Shallow Depth to water upon completion 18 State whether well is shallow or artesian_____

Section	2		PRINCIPAL WATER-BEARING STRATA						
No.	Depth in Feet		Thickness in	Description of Water-Bearing Formation					
	From	To	Feet						
1	18	32	14	Gravel.					
2									
3		1							
4	·]								
5									

Section 3	3		_	RECOR					
Dia	Pounds	Threads	Depth		Feet	Tuno Shoo	Perforations		
in.	ft.	in	Top	Bottom	Bottom Feet Type Shoe		From	То	То
6	17	8	0	40	40	open	10	40	
	•••••					· · · · ·			<u> </u>

Section 4			RECORD		AND	CEMENT	ING	·
Depth		Diameter	Tons	Tons No. Sacks of				
From	To	Hole in in.	Clay	Cement				
				+:				•
		-		,				
Section 5				PLUGGING	RECO	RD		
Name of 1	Plugging	Contractor					L	cense No
Street and	l Numbe	r	_	City	/		St	cense No ate
								oughage
Plugging 1	method u	ised				Date	Plugged	
Plugging a	approved	by:				Cement	Plugs were	placed as follows:
					No.	Depth	of Plug	No. of Cooler Tree 1
			Basin Supe	rvisor	140.	From	То	No. of Sacks Used
	FOR USE	OF STATE ENG	INEER ON	LY				
י ו ה ד"								
Date R	eceived	DUALE ENG	•					
87:8		- 130 0CL -						
	- 0 -	- TOO 8281			<u></u>			

Use O.W.D.

Location No. 19.35.22.

File No.

4290

Section	6
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LOG OF WELL

Depth in Feet		1 1	Color	Type of Material Encountered
From	То	in Feet		
0	2	2		Surface soil
2	15	13		Galiche
15	18	3		Sand Kock
18	32	14		Gravel (water)
32	45	13	**************************************	Red Clay
				•
]			
				L S Elev 3 74/8 Depth to K Trc Elev of K Trc
				LStlevTrc
				Elev of KTrc = // 2
 · · · ·				
				Loc. No. 19.25.22, 14344 Hydro, SurveyField Check X
				Hydro, Survey Field Check X
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet
				Determined by Inst. Leveling
	+			
			· · · · · · · · · · · · · · · · · · ·	
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Column B Busko Well Driller

APPENDIX D

Lithologic Sampling Logs

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



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								Sample Name: PH01	Date: 01/04/2023		
								Site Name: Toro 22-3	Date: 01/04/2020		
								Incident Number: nOY1727952	2679		
							Job Number: 18136				
	LITHO		<u>C / </u>	SOIL	SAMPLI		Logged By: Edyte Konan	Method: PC 210 LC Track Hoe			
Site Co	ordinates:						-	Hole Diameter: N/A	Total Depth: 21 feet (ft)		
						- Chloride	Test Strip	s and PID for chloride and vapo			
perform	performed with 1:4 dilution factor of soil to distilled water. "BGS" - b							ow ground surface			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol		scriptions/Notes		
					-	-	SW/SM		well graded with little silt and		
					-	_		gravel, fine to coarse, no sta	aining, no odor		
Dry	<168	0.3	No	PH01	0.5	- 0.5					
						_		@ 20 ft and 21 ft bgs: some	silt, no staining, no odor		
					4	11					
Dry	1831.2	0.1	No	PH01	5	- 5					
Dry	1031.2	0.1		FUUI	5 -	_ 5					
					_	-					
						-					
Dry	772.8	0.4	No	PH01	10 _	10					
					-	-					
					-	_					
Dry	1960	0.1	No	PH01	15	15					
						-					
					_	_					
Dry	700	0.1	No	PH01	20	- 20					
	700	0.1		1 1 10 1	20 _	_ 20					
						1/					
Dry	515.2	0.1	NO	PH01	21	21 Tota	 al Denth'	21 ft bgs			
						TUL	a Depui.				
					_						
						_					
							_				

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									D. (
				n n				Sample Name: PH02	Date: 06/30/2023
								Site Name: Toro 22-3	0070
								Incident Number: nOY172795 Job Number: 18136	2679
			<u> </u>						
						NG LOG	Logged By: Edyte Konan	Method: 336E Track Hoe	
	ordinates:						To at Otain	Hole Diameter: N/A	Total Depth: 21 feet (ft)
								s and PID for chloride and vapo ow ground surface	or, respectively. Chioride test
performed with 1:4 dilution factor of soil to distilled water. "BGS" ·							•		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic De	scriptions/Notes
					_	_	SW/SM		, well graded with little silt and
Dry	<168	0.0	No	PH02	0.5	0.5		gravel, fine to coarse, no st	aining, no odor
Dry	330.4	0.1	No		1	- 1			
	550.4	0.1	INU	-	' -	- '		@ 20 ft and 21 ft bgs: some	e silt no staining no odor
						-			,
						-			
Dry	-	-	No	-	2	_ 2			
					-	-			
					_	_			
Dry	_	-	No	-	3	- 3			
			110		Ŭ -	_ 0			
					_	_			
						-			
Dry	918.4	0.0	No	-	4 _	_ 4			
						ור			
					<u> </u>	Ш			
Dry	918.4	0.0	No	PH02	10	- 10			
				-		_			
						11			
				DUIGE					
Dry	772.8	0.0	No	PH02	18 _	18			
					-	-			
Dry	-	-	No	-	19	- 19			
						_			
						_			
Dry	-	-	No	-	20 _	20			
					-	-			
					-	_			
Dry	470.4	0.0	No	PH02	21	21			
						Tota	al Depth:	21 ft bgs	

•

								Sample Name: PH03	Date: 06/30/2023
								Site Name: Toro 22-3	
								Incident Number: nOY172795	2679
				U			Job Number: 18136		
	LITHO				SAMDI	NG LOO	2	Logged By: Edyte Konan	Method: 336E Track Hoe
Site Co	ordinates:						,	Hole Diameter: N/A	Total Depth: 21 feet (ft)
						H Chloride	Test Strin	s and PID for chloride and vap	
								ow ground surface	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol		scriptions/Notes
Dry	291.2	0.0	No	PH03	0.5	0.5	SW/SM	gravel, fine to coarse, no st	well graded with little silt and
Diy	291.2	0.0	INU	FIIUS	0.5 -	0.5		gravel, fille to coarse, no su	
Dry	151.2	0.0	No	-	1	1			
						Γ		@ 20 ft and 21 ft bgs: some	e silt, no staining, no odor
					-	F			
Dry		_	No	-	2	2			
Diy	-	-	NU	-	<u> </u>	<u> </u>			
						t			
						T .			
Dry	-	-	No	-	3_	3			
						÷			
					-	+			
Dry	700	0.0	No	-	4	4			
-					-	Ē.			
						Ψ			
D	1 000 0	0.0	NI		40	+ 10			
Dry	1,080.8	0.0	0/1	PH03	10 _	10			
					1	ħ/			
						ľ			
Dry	772.8	0.0	No	PH03	18	18			
						Ļ			
						╞			
Dry	_	_	No	_	19	19			
						† 'ĭ			
						Ĺ			
						Ļ			
Dry	-	-	No	-	20 _	20			
						╞			
					-	┢			
Dry	291.2	0.0	No	PH03	21	21			
							al Depth:	21 ft bgs	

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Tables

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



.

e _{TE}	СН				Table 1 ANALYTICAL F ergy Permian, L Toro 22-3 inty, New Mexi				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)			TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Clo a Release (NMAC 1		or Soils Impacted by	10	50	NE	NE	NE	100	600
			Deli	ineation Soil Sample	s - Incident Number	nOY1727952679	•		
PH01	01/04/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	18.4
PH01	01/04/2023	5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	1,290
PH01	01/04/2023	10	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	731
PH01	01/04/2023	15	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	1,940
PH01	01/04/2023	20	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	624
PH01	01/04/2023	21	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	654
PH02	06/30/2023	0.5	<0.0250	<0.0500	<20.0	51.9	<100	51.9	77.8
PH02	06/30/2023	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	1,040
PH02	06/30/2023	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	676
PH02	06/30/2023	21	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	254
PH03	06/30/2023	0.5	<0.0250	<0.0500	<20.0	161	141	302	267
PH03	06/30/2023	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	975
PH03	06/30/2023	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	802
PH03	06/30/2023	21	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	287

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

NINAC. New Mexico Administrative Code

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

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Received by OCD: 7/26/2023 10:20:59 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/6/2023 4:23:10 PM

JOB DESCRIPTION

Toro 22-3H SDG NUMBER 03A1987030

JOB NUMBER

890-3770-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notos and contact information

Received by OCD: 7/26/2023 10:20:59 AM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 1/6/2023 4:23:10 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 55 of 139

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	18
Certification Summary	20
Method Summary	21
Sample Summary	22
	23
Receipt Checklists	24

	Definitions/Glossary		
Client: Ensolum Project/Site: To		Job ID: 890-3770-1 SDG: 03A1987030	2
Qualifiers			3
GC VOA Qualifier	Qualifier Description		4
F1	MS and/or MSD recovery exceeds control limits.		_
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA Qualifier	Qualifier Description		6
<u>S1+</u>	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC Qualifier	Qualifier Description		8
<u>U</u>	Indicates the analyte was analyzed for but not detected.		
	. ,		9
Glossary	T here a summer have a lable of the summer has been as the third sum of the third sum of		
Abbreviation	These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis		
~ %R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		13
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOQ	Limit of Quantitation (DoD/DOE)		
MCL	EPA recommended "Maximum Contaminant Level"		
MDA	Minimum Detectable Activity (Radiochemistry)		
MDC	Minimum Detectable Concentration (Radiochemistry)		
MDL	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		
NC	Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Negative / Absent		
POS	Positive / Present		
PQL	Practical Quantitation Limit		
PRES	Presumptive		

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)

Quality Control

TNTC Too Numerous To Count

QC

Page 57 of 139

4

5

Job ID: 890-3770-1 SDG: 03A1987030

Job ID: 890-3770-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3770-1

Receipt

The samples were received on 1/5/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-3770-1), PH01 (890-3770-2), PH01 (890-3770-3), PH01 (890-3770-4), PH01 (890-3770-5) and PH01 (890-3770-6).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-43267 and analytical batch 880-43325 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-43343 and analytical batch 880-43315 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method: SW846 8021B - Volatile Organic Compounds (GC)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

118

96

<0.00401 U

Result Qualifier

Result Qualifier

<50.0 U

%Recovery

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

Limits

70 ₋ 130 70 ₋ 130

RL

RL

50.0

0.00401

MDL

MDL Unit

MDL Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

D

Prepared

01/05/23 13:12

01/05/23 13:12

01/05/23 13:12

01/05/23 13:12

01/05/23 13:12

01/05/23 13:12

Dil Fac

1

1

1

1

1

1

1

1

Dil Fac

Matrix: Solid

Job ID: 890-3770-1 SDG: 03A1987030

Client Sample ID: PH01

Date Collected: 01/04/23 13:10 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Project/Site: Toro 22-3H

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

SDG: 03A19870

Lab Sample ID: 890-3770-1 Matrix: Solid

Analyzed

01/06/23 13:22

01/06/23 13:22

01/06/23 13:22

01/06/23 13:22

01/06/23 13:22

01/06/23 13:22

Prepared	Analyzed	Dil Fac	9
01/05/23 13:12	01/06/23 13:22	1	
01/05/23 13:12	01/06/23 13:22	1	10
Prepared	Analyzed	Dil Fac	11
	01/06/23 15:30	1	12
Prepared	Analyzed	Dil Fac	13
	01/06/23 16:56	1	14
Prepared	Analyzed	Dil Fac	
01/06/23 08:58	01/06/23 14:02	1	
01/06/23 08:58	01/06/23 14:02	1	

Lab Sample ID: 890-3770-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:02
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:02
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:02
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
1-Chlorooctane	126		70 - 130				01/06/23 08:58	01/06/23 14:02
o-Terphenyl	130		70 _ 130				01/06/23 08:58	01/06/23 14:02

	io, ion en en en acegraphy eeta						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4	5.04	mg/Kg			01/06/23 14:42	1

Client Sample ID: PH01 Date Collected: 01/04/23 13:40 Date Received: 01/05/23 10:30

Sample Depth: 5'

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/05/23 13:12	01/06/23 13:43	1

Client Sample Results

Job ID: 890-3770-1 SDG: 03A1987030

Matrix: Solid

5

Lab Sample ID: 890-3770-2

Lab Sample ID: 890-3770-3

Matrix: Solid

Client Sample ID: PH01

Date Collected: 01/04/23 13:40 Date Received: 01/05/23 10:30

Sample Depth: 5'

Client: Ensolum Project/Site: Toro 22-3H

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130				01/05/23 13:12	01/06/23 13:43	1
Method: TAL SOP Total BTEX	(- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg			01/06/23 15:30	1
Method: SW846 8015 NM - Di Analyte	• •	ics (DRO) (Qualifier	<mark>GC)</mark> RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/06/23 16:56	1
Method: SW846 8015B NM - I	Diesel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							04/00/00 00.50	04/00/00 44:00	

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Gasoline Range Organics	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 14:23	1	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 14:23	1	1
	C10-C28)										
	Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 14:23	1	
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
	1-Chlorooctane	105		70 - 130				01/06/23 08:58	01/06/23 14:23	1	
	o-Terphenyl	116		70 - 130				01/06/23 08:58	01/06/23 14:23	1	
י ר	— —										

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	Γ	D	Prepared	Analyzed	Dil Fac
Chloride	1290		5.00		mg/Kg				01/06/23 14:57	1

Client Sample ID: PH01

Date Collected: 01/04/23 14:10 Date Received: 01/05/23 10:30 Sample Depth: 10'

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 01/05/23 13:12 01/06/23 14:03 1 Toluene <0.00199 U 0.00199 01/05/23 13:12 01/06/23 14:03 mg/Kg 1 Ethylbenzene <0.00199 U 0.00199 mg/Kg 01/05/23 13:12 01/06/23 14:03 1 01/05/23 13:12 01/06/23 14:03 m-Xylene & p-Xylene <0.00398 U 0.00398 mg/Kg 1 o-Xylene <0.00199 U 0.00199 mg/Kg 01/05/23 13:12 01/06/23 14:03 1 Xylenes, Total <0.00398 U 0.00398 mg/Kg 01/05/23 13:12 01/06/23 14:03 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/05/23 13:12 4-Bromofluorobenzene (Surr) 118 01/06/23 14:03 1 1,4-Difluorobenzene (Surr) 99 70 - 130 01/05/23 13:12 01/06/23 14:03 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Total BTEX <0.00398 Ū 0.00398 01/06/23 15:30 mg/Kg 1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Total TPH	<50.0	U	50.0	mg/Kg			01/06/23 16:56	1			

Page 60 of 139

Job ID: 890-3770-1 SDG: 03A1987030

Matrix: Solid

Lab Sample ID: 890-3770-3

Lab Sample ID: 890-3770-4

Matrix: Solid

Client Sample ID: PH01

Date Collected: 01/04/23 14:10 Date Received: 01/05/23 10:30

Sample Depth: 10'

Project/Site: Toro 22-3H

Client: Ensolum

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				01/06/23 08:58	01/06/23 14:45	1
o-Terphenyl	118		70 - 130				01/06/23 08:58	01/06/23 14:45	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	731		5.00		mg/Kg			01/06/23 15:02	1

Client Sample ID: PH01

Date Collected: 01/04/23 14:40

Date Received: 01/05/23 10:30

Sample Depth: 15'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/23 13:12	01/06/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/05/23 13:12	01/06/23 14:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/05/23 13:12	01/06/23 14:24	1
Method: TAL SOP Total BTEX -						_	- ·		
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/06/23 15:30	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/06/23 16:56	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/06/23 08:58	01/06/23 15:06	1
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/06/23 08:58	01/06/23 15:06	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 08:58	01/06/23 15:06	1
									Dil Fac

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1-Chlorooctane
 105
 70 - 130
 01/06/23 08:58
 01/06/23 15:06
 1

 o-Terphenyl
 117
 70 - 130
 01/06/23 08:58
 01/06/23 15:06
 1

Eurofins Carlsbad

Released to Imaging: 7/31/2023 7:52:00 AM

		Clie	nt Sample R	lesults	;				
Client: Ensolum								Job ID: 890	-3770-1
Project/Site: Toro 22-3H								SDG: 03A	1987030
Client Sample ID: PH01							Lab San	nple ID: 890-	3770-4
Date Collected: 01/04/23 14:40								Matri	ix: Solid
Date Received: 01/05/23 10:30									
Sample Depth: 15'									
			N - 1 - 1 - 1 -						
Method: MCAWW 300.0 - Anions Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride		Quaimer	25.2		mg/Kg			01/06/23 15:07	5
_					0 0				
Client Sample ID: PH01							Lab San	nple ID: 890-	
Date Collected: 01/04/23 15:10								Matri	ix: Solid
Date Received: 01/05/23 10:30									
Sample Depth: 20'									
_ Method: SW846 8021B - Volatile	Organic Com	ounds (GC	2)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/05/23 13:12	01/06/23 14:45	1
0	0/ D	0	1 5 54				Durante	A	D# 5
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 	Qualifier	<i>Limits</i> 70 _ 130				Prepared 01/05/23 13:12	Analyzed 01/06/23 14:45	Dil Fac
1,4-Difluorobenzene (Surr)	124		70 - 130 70 - 130				01/05/23 13:12	01/06/23 14:45	1
	101		70 - 130				01/03/23 13.12	01/00/23 14.43	,
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/06/23 15:30	1
- Mothod: SW946 9015 NM Diog									
Method: SW846 8015 NM - Diese Analyte		Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0				mg/Kg			01/06/23 16:56	1
—					0 0				
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 15:28	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 15:28	1
C10-C28)					5 5				
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				01/06/23 08:58	01/06/23 15:28	1
o-Terphenyl	112		70 - 130				01/06/23 08:58	01/06/23 15:28	1
_		_							
Method: MCAWW 300.0 - Anions						_	_ .	.	
		Qualifier		MDL		D	Prepared		Dil Fac
Analyte Chloride		Qualifier		MDL	Unit mg/Kg	<u> </u>	Prepared	Analyzed 01/06/23 15:12	Dil

Job ID: 890-3770-1 SDG: 03A1987030

Client Sample ID: PH01

Date Collected: 01/04/23 15:40 Date Received: 01/05/23 10:30

Sample Depth: 21'

Project/Site: Toro 22-3H

Client: Ensolum

Matrix: Solid

ample Depth: 21									
Method: SW846 8021B - Volatile Analyte		ounds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/05/23 13:12	01/06/23 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/05/23 13:12	01/06/23 15:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/05/23 13:12	01/06/23 15:05	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/23 15:30	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/06/23 16:56	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 16:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 16:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 08:58	01/06/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				01/06/23 08:58	01/06/23 16:11	1
p-Terphenyl	117		70 - 130				01/06/23 08:58	01/06/23 16:11	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654		4.98		mg/Kg			01/06/23 15:17	

Page 63 of 139

Job ID: 890-3770-1 SDG: 03A1987030

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Lab Sample ID Client Sample ID (70-130) (70-130) 880-23201-A-1-H MS Matrix Spike 102 96 880-23201-A-1-I MSD Matrix Spike Duplicate 99 92 890-3770-1 PH01 118 96 PH01 95 890-3770-2 112 890-3770-3 PH01 118 99 PH01 890-3770-4 120 102 890-3770-5 PH01 124 101 890-3770-6 PH01 126 97 LCS 880-43267/1-A Lab Control Sample 95 95 LCSD 880-43267/2-A Lab Control Sample Dup 97 96 MB 880-43267/5-A Method Blank 102 87 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3758-A-101-D MS	Matrix Spike	101	96	
890-3758-A-101-E MSD	Matrix Spike Duplicate	102	98	
890-3770-1	PH01	126	130	
890-3770-2	PH01	105	116	
890-3770-3	PH01	106	118	
890-3770-4	PH01	105	117	
890-3770-5	PH01	101	112	
890-3770-6	PH01	103	117	
LCS 880-43343/2-A	Lab Control Sample	128	117	
LCSD 880-43343/3-A	Lab Control Sample Dup	125	123	
MB 880-43343/1-A	Method Blank	150 S1+	137 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43267								mple ID: Metho	
Matrix: Solid								Prep Type: 1	otal/NA
Analysis Batch: 43325								Prep Batch	n: 43267
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/23 13:12	01/06/23 10:51	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/05/23 13:12	01/06/23 10:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130				01/05/23 13:12	01/06/23 10:51	1

Lab Sample ID: LCS 880-43267/1-A Matrix: Solid

Analysis Batch: 43325

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	
Toluene	0.100	0.09684		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09524		mg/Kg		95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-43267/2-A

Matrix: Solid aluaia Detel

Analysis Batch: 43325							Prep	Batch:	43267
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	5	35
Ethylbenzene	0.100	0.09183		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.09738		mg/Kg		97	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-23201-A-1-H MS

Matrix: Solid aluaia Batahi 42225

Analysis Batch: 43325									Pre	Batch: 43267
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.08556		mg/Kg		85	70 - 130	
Toluene	<0.00199	U	0.0998	0.07942		mg/Kg		80	70 - 130	

arlsbad

Prep Type: Total/NA

Job ID: 890-3770-1 SDG: 03A1987030

3:12	01/06/23 10:51	1
3:12	01/06/23 10:51	1
ple II	D: Lab Control Prep Type: ⁻ Prop Bate	Total/NA

Client Sam

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43267

Eurofins	С

Client Sample ID: Matrix Spike

Client: Ensolum

Project/Site: Toro 22-3H

QC Sample Results

Job ID: 890-3770-1 SDG: 03A1987030

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-23201-A-	1-H MS									Client S	Sample ID:	Matrix	Spike
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 43325											Prep E	Batch:	43267
	Sample	Sam	ple	Spike	MS	MS					%Rec		
Analyte	Result	Qua	lifier	Added	Result	Qua	lifier	Unit	0) %Rec	Limits		
Ethylbenzene	< 0.00199	U F1		0.0998	0.06868	F1		mg/Kg		69	70 - 130		
m-Xylene & p-Xylene	<0.00398	U		0.200	0.1508			mg/Kg		76	70 - 130		
o-Xylene	<0.00199	U		0.0998	0.07521			mg/Kg		75	70 - 130		
	MS	мs											
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	102			70 - 130									
1,4-Difluorobenzene (Surr)	96			70 - 130									
Lab Sample ID: 880-23201-A-	1-I MSD							c	lient	Sample ID:	Matrix Spi	ke Duj	olicat
Matrix: Solid										-	Prep Ty		
Analysis Batch: 43325											Prep E	-	
-	Sample	Sam	ple	Spike	MSD	MSD)				%Rec		RP
Analyte	Result	Qua	lifier	Added	Result	Qua	lifier	Unit	0) %Rec	Limits	RPD	Lim
Benzene	<0.00199	U		0.100	0.09575			mg/Kg		95	70 - 130	11	3
Toluene	<0.00199	U		0.100	0.08902			mg/Kg		89	70 - 130	11	3
Ethylbenzene	<0.00199	U F1		0.100	0.07687			mg/Kg		77	70 - 130	11	3
m-Xylene & p-Xylene	<0.00398	U		0.200	0.1675			mg/Kg		84	70 - 130	10	3
o-Xylene	<0.00199	U		0.100	0.08216			mg/Kg		81	70 - 130	9	3
	MSD	MSD)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	99			70 - 130									
1,4-Difluorobenzene (Surr)	92			70 - 130									
lethod: 8015B NM - Dies	el Range Oi	rgar	nics (DR	(GC)									
Lab Sample ID: MB 880-4334	3/1_A									Client S:	ample ID: M	othod	Blan
Matrix: Solid	0/1-A										Prep Ty		
Analysis Batch: 43315											Prep E	-	
Analysis Baten. 40010		мв	мв								i i cp i	aton.	
Analyte	R		Qualifier		RL	MDL	Unit		D	Prepared	Analyze	ł	Dil Fa
Gasoline Range Organics		<50.0			0.0		mg/Kg			1/06/23 08:18	01/06/23 08		-
(GRO)-C6-C10													
Diesel Range Organics (Over	<	<50.0	U	50	0.0		mg/Kg		01	1/06/23 08:18	01/06/23 08	:29	
C10-C28) Oll Range Organics (Over C28-C36)		-50 0		E	0.0		malla		04	100100 00.40	01/06/02 00		
On Manye Organics (Over 628-630)		<50.0		50	0.0		mg/Kg		0	1/06/23 08:18	01/06/23 08	.29	
			MB							_			_
	% Paca	verv	Qualifier	Limits						Prepared	Analyze	1	Dil Fa
Surrogate	////////									-	· · · · · · · · · · · · · · · · · · ·		
Surrogate 1-Chlorooctane o-Terphenyl		150	S1+ S1+							1/06/23 08:18 1/06/23 08:18	01/06/23 08	8:29	

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Prep Type: Total/NA

Prep Batch: 43343

Client Sample ID: Lab Control Sample

%Rec

Limits

70 - 130

70 - 130

Released to Imaging: 7/31/2023 7:52:00 AM

Lab Sample ID: LCS 880-43343/2-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Analysis Batch: 43315

Gasoline Range Organics

Diesel Range Organics (Over

LCS LCS

1055

1009

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

106

101

Spike

Added

1000

1000

QC Sample Results

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

		0 (/ / / /		,						
Lab Sample ID: LCS 880-43	343/2-A						Client	Sample	e ID: Lab Co		
Matrix: Solid										ype: To	
Analysis Batch: 43315									Prep	Batch:	43343
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	117		70 - 130								
- ' '											
Lab Sample ID: LCSD 880-4	3343/3-A					Clie	nt San	ple ID:	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 43315									Prep	Batch:	43343
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	994.1		mg/Kg		99	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1020		mg/Kg		102	70 - 130	1	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	125		70 - 130								
o-Terphenyl	123		70 - 130								
Matrix: Solid Analysis Batch: 43315		. .							Prep	ype: To Batch:	
	-	Sample	Spike		MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1138		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	90.7		998	1021		mg/Kg		93	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	96		70 - 130								
Lab Sample ID: 890-3758-A	-101-E MSD					CI	lient Sa	ample IC	D: Matrix Sp	oike Dup	licate
Matrix: Solid								- C.		ype: To	
Analysis Batch: 43315										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	980.3		mg/Kg		96	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	90.7		997	1038		mg/Kg		95	70 _ 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								

Job ID: 890-3770-1 SDG: 03A1987030

Released to Imaging: 7/31/2023 7:52:00 AM

o-Terphenyl

70 _ 130

98

Client: Ensolum

Project/Site: Toro 22-3H

QC Sample Results

Job ID: 890-3770-1 SDG: 03A1987030

Method: 300.0 - Anions, Ion Chromatography

											Clien	t Sample	D: Metho	od E	Blank
Matrix: Solid													Prep Type:		
Analysis Batch: 43414															
-		MB M	в												
Analyte	R	esult Q	ualifier		RL		MDL	Unit		D	Prepare	a P	Analyzed	C	Dil Fac
Chloride	<	<5.00 U			5.00			mg/Kg]			01/	06/23 13:58		1
Lab Sample ID: LCS 880-43379/2-A										Clie	nt Sam	ple ID: La	ab Control	Sa	mple
Matrix: Solid												I	Prep Type:	So	luble
Analysis Batch: 43414															
				Spike		LCS	LCS					%Re	C		
Analyte				Added		Result	Qual	ifier	Unit		%Re				
Chloride				250		244.0			mg/Kg		98	3 90 <u>-</u> 1	110		
	Α								Cli	ent Sa	mple IC): Lab Co	ontrol Sam	nple	Dup
Matrix: Solid													Prep Type:	So	luble
Analysis Batch: 43414															
				Spike		LCSD	LCS	D				%Re	C		RPD
Analyte				Added		Result	Qual	ifier	Unit		%Re	Limit	ts RP	D	Limit
Chloride				250		245.1			mg/Kg		98	3 90 - 1	110	0	20
 Lab Sample ID: 890-3769-A-1-E MS											Clie	nt Samp	le ID: Mati	rix S	Spike
Matrix: Solid													Prep Type:	So	luble
Analysis Batch: 43414															
	Sample	Sample)	Spike		MS	MS					%Re	C		
Analyte	Result	Qualifie	ər	Added		Result	Qual	ifier	Unit	D	%Re	c Limit	ts		
Chloride	<5.02	U		251		254.6			mg/Kg		10	1 90 - 1	110		
- Lab Sample ID: 890-3769-A-1-F MS	D									Client	Sample	ID: Matr	ix Spike D	lqu	icate
Matrix: Solid													Prep Type:		
Analysis Batch: 43414															
-	Sample	Sample)	Spike		MSD	MSD					%Re	C		RPD
Analyte	Result	Qualifie	ər	Added		Result	Qual	ifier	Unit	D	%Re	c Limit	ts RP	D	Limit
Chloride	<5.02	U		251		256.2			mg/Kg		10	1 90 - 1	110	1 -	20

QC Association Summary

Client: Ensolum Project/Site: Toro 22-3H

5 6

Job ID: 890-3770-1 SDG: 03A1987030

GC VOA

Prep Batch: 43267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3770-1	PH01	Total/NA	Solid	5035	
890-3770-2	PH01	Total/NA	Solid	5035	
890-3770-3	PH01	Total/NA	Solid	5035	
890-3770-4	PH01	Total/NA	Solid	5035	
890-3770-5	PH01	Total/NA	Solid	5035	
890-3770-6	PH01	Total/NA	Solid	5035	
MB 880-43267/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23201-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-23201-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43325

MB 880-43267/5-A	Method Blank	Iotal/NA	Solid	5035	_	
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	5035	8	8
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
880-23201-A-1-H MS	Matrix Spike	Total/NA	Solid	5035		9
880-23201-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		
Analysis Batch: 43325						0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	1
890-3770-1	PH01	Total/NA	Solid	8021B	43267	
890-3770-2	PH01	Total/NA	Solid	8021B	43267	2
890-3770-3	PH01	Total/NA	Solid	8021B	43267	4
890-3770-4	PH01	Total/NA	Solid	8021B	43267	2
890-3770-5	PH01	Total/NA	Solid	8021B	43267	5
890-3770-6	PH01	Total/NA	Solid	8021B	43267	
MB 880-43267/5-A	Method Blank	Total/NA	Solid	8021B	43267	4
LCS 880-43267/1-A	Lab Control Sample	Total/NA	Solid	8021B	43267	
LCSD 880-43267/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43267	
880-23201-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	43267	
880-23201-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43267	

Analysis Batch: 43425

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3770-1	PH01	Total/NA	Solid	Total BTEX	
890-3770-2	PH01	Total/NA	Solid	Total BTEX	
890-3770-3	PH01	Total/NA	Solid	Total BTEX	
890-3770-4	PH01	Total/NA	Solid	Total BTEX	
890-3770-5	PH01	Total/NA	Solid	Total BTEX	
890-3770-6	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3770-1	PH01	Total/NA	Solid	8015B NM	43343
890-3770-2	PH01	Total/NA	Solid	8015B NM	43343
890-3770-3	PH01	Total/NA	Solid	8015B NM	43343
890-3770-4	PH01	Total/NA	Solid	8015B NM	43343
890-3770-5	PH01	Total/NA	Solid	8015B NM	43343
890-3770-6	PH01	Total/NA	Solid	8015B NM	43343
MB 880-43343/1-A	Method Blank	Total/NA	Solid	8015B NM	43343
LCS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43343
LCSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43343
890-3758-A-101-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43343
890-3758-A-101-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43343

QC Association Summary

Client: Ensolum Project/Site: Toro 22-3H

Job ID: 890-3770-1 SDG: 03A1987030

GC Semi VOA Prep Batch: 43343

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3770-1	PH01	Total/NA	Solid	8015NM Prep	
90-3770-2	PH01	Total/NA	Solid	8015NM Prep	
90-3770-3	PH01	Total/NA	Solid	8015NM Prep	
90-3770-4	PH01	Total/NA	Solid	8015NM Prep	
90-3770-5	PH01	Total/NA	Solid	8015NM Prep	
90-3770-6	PH01	Total/NA	Solid	8015NM Prep	
B 880-43343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
CS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
CSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
0-3758-A-101-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
0-3758-A-101-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3770-1	PH01	Total/NA	Solid	8015 NM	
890-3770-2	PH01	Total/NA	Solid	8015 NM	
890-3770-3	PH01	Total/NA	Solid	8015 NM	
890-3770-4	PH01	Total/NA	Solid	8015 NM	
890-3770-5	PH01	Total/NA	Solid	8015 NM	
890-3770-6	PH01	Total/NA	Solid	8015 NM	
—					

HPLC/IC

Leach Batch: 43379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3770-1	PH01	Soluble	Solid	DI Leach	
890-3770-2	PH01	Soluble	Solid	DI Leach	
890-3770-3	PH01	Soluble	Solid	DI Leach	
890-3770-4	PH01	Soluble	Solid	DI Leach	
890-3770-5	PH01	Soluble	Solid	DI Leach	
890-3770-6	PH01	Soluble	Solid	DI Leach	
MB 880-43379/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43379/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43379/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3769-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3769-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3770-1	PH01	Soluble	Solid	300.0	43379
890-3770-2	PH01	Soluble	Solid	300.0	43379
890-3770-3	PH01	Soluble	Solid	300.0	43379
890-3770-4	PH01	Soluble	Solid	300.0	43379
890-3770-5	PH01	Soluble	Solid	300.0	43379
890-3770-6	PH01	Soluble	Solid	300.0	43379
MB 880-43379/1-A	Method Blank	Soluble	Solid	300.0	43379
LCS 880-43379/2-A	Lab Control Sample	Soluble	Solid	300.0	43379
LCSD 880-43379/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43379
890-3769-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	43379
890-3769-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43379

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9

Job ID: 890-3770-1 SDG: 03A1987030

Lab Sample ID: 890-3770-1 Matrix: Solid

Lab Sample ID: 890-3770-2

Date Collected: 01/04/23 13:10 Date Received: 01/05/23 10:30

Client Sample ID: PH01

Client: Ensolum

Project/Site: Toro 22-3H

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 14:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		1			43414	01/06/23 14:42	СН	EET MID

Client Sample ID: PH01

Date Collected: 01/04/23 13:40

Date Received: 01/05/23 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 14:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		1			43414	01/06/23 14:57	СН	EET MID

Client Sample ID: PH01

Date Collected: 01/04/23 14:10

Date Received: 01/05/23 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 14:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		1			43414	01/06/23 15:02	CH	EET MID

Client Sample ID: PH01 Date Collected: 01/04/23 14:40 Date Received: 01/05/23 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID

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Matrix: Solid

Lab Sample ID: 890-3770-4

Page 70 of 139

Lab Sample ID: 890-3770-3

Matrix: Solid

Matrix: Solid

Released to Imaging: 7/31/2023 7:52:00 AM

Job ID: 890-3770-1 SDG: 03A1987030

Lab Sample ID: 890-3770-4 Matrix: Solid

Lab Sample ID: 890-3770-5

Matrix: Solid

Date Collected: 01/04/23 14:40 Date Received: 01/05/23 10:30

Client Sample ID: PH01

Client: Ensolum

Project/Site: Toro 22-3H

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		5			43414	01/06/23 15:07	СН	EET MID

Client Sample ID: PH01 Date Collected: 01/04/23 15:10

Date Received: 01/05/23 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 15:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		1			43414	01/06/23 15:12	СН	EET MID

Client Sample ID: PH01

Date Collected: 01/04/23 15:40 Date Received: 01/05/23 10:30 Lab Sample ID: 890-3770-6 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43267	01/05/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43325	01/06/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43425	01/06/23 15:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			43445	01/06/23 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 16:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43379	01/06/23 12:42	KS	EET MID
Soluble	Analysis	300.0		1			43414	01/06/23 15:17	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

0-3770-1

5

9

Accreditation/Certification Summary

Client: Ensolum Project/Site: Toro 22-3H

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Ithority	Pi	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, be	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o		Motrix	Analyta	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

10

Eurofins Carlsbad

Page 72 of 139

Job ID: 890-3770-1

SDG: 03A1987030
Client: Ensolum Project/Site: Toro 22-3H Job ID: 890-3770-1 SDG: 03A1987030

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
SW846 =	= "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Ma "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed = TestAmerica Laboratories, Standard Operating Procedure	•	
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Protocol References:

Laboratory References:

Sample Summary

Client: Ensolum Project/Site: Toro 22-3H

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-3770-1	PH01	Solid	01/04/23 13:10	01/05/23 10:30	0.5'	
90-3770-2	PH01	Solid	01/04/23 13:40	01/05/23 10:30	5'	
90-3770-3	PH01	Solid	01/04/23 14:10	01/05/23 10:30	10'	5
90-3770-4	PH01	Solid	01/04/23 14:40	01/05/23 10:30	15'	
90-3770-5	PH01	Solid	01/04/23 15:10	01/05/23 10:30	20'	
90-3770-6	PH01	Solid	01/04/23 15:40	01/05/23 10:30	21'	
						8
						9
						1
						1
						1

Page 74 of 139

	Xe	Xenco	Xenco		EL Pa	iso TX	(915) 58	35-3443, Lu	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296				
					Hobb	s, NM (5/5) 392	2-7550, Ca	Hobbs, NM (575) 392-7550, Cansbad, NM (575) 966-3189		www.xenco.com		Page 1 of 1
Project Manager: Gilt	Gilbert Moreno			-	Bill to: (if different)	ē	Jim Raley	aley			Work Orc	Work Order Comments	
	Ensolum			0	Company Name:	<u>, co</u>	WPX I	WPX Energy		Prog	Program: UST/PST [] PRP Brownfields [] RRC []	rownfields 🗌 RR(c Superfund
	3122 National Parks HWY	arks H	WY		Address:		5315 E	5315 Buena Vista Dr	a Dr.	State	State of Project:	1	
e ZIP:	Carlsbad, NM 88220	3220		0	City, State ZIP:		Carlsb	Carlsbad, NM 88220	3220	Repo	Reporting: Level II 🗌 Level III 📋 PST/UST 📋 TRRP 🛄	PST/UST TRF	
	832-541-7719			Email: 0	Email: gmoreno@Ensolum.com,	Isolum	.com,	im.raley	im.raley@dvn.com	Deliv	Deliverables: EDD AL	ADaPT Other:	en
Name:	Toro 22-3H			Turn	Turn Around				ANALYSIS	IS REQUEST		Preserv	Preservative Codes
P.	03A1987030			Routine	Rush	Pres.						None: NO	DI Water: H ₂ O
	Rural Lea, NM			Due Date:	24Hr TAT							Cool: Cool	MeOH: Me
	Yocoly Edyte Konan	nan		TAT starts the	day received by				-			HCL: HC	HNO3: HN
	1061141201			the lab, if rece	the lab, if received by 4:30pm	s						H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	ank:	Yes No	Wet Ice:	Mes No	eter	0)					H ₃ PO ₄ : HP	
Samples Received Intact:					Inn D	ram	300.					NaHSO4: NABIS	SIE
Cooler Custody Seals:	Yes No	ATT	Correction Factor:	stor:	-0.2	Pa	PA:		890-3770 0	Chain of Custody	ody	Na ₂ S ₂ O ₃ : NaSO ₃	30 ₃
Sample Custody Seals:	Yes No	NIA	Temperature Reading:	Reading:	NP	1	S (EI				-	Zn Acetate+NaOH: Zn	laOH: Zn
Total Containers:			Corrected Temperature:	nperature:	N.C		RIDE					NaOHTASOU	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	# of Cont	CHLOF	TPH (8 BTEX (Sample	Sample Comments
PH01		S	1/4/2023	13:10 0	0.5' Grab/	1	×	××					
PH01		S	1/4/2023	13:40	5' Grab/	-	×	××					
PH01		S	1/4/2023	14:10	10' Grab/		×	××				inc	Incident ID
PH01		S	1/4/2023	14:40	15' Grab/	1	×	××				nOY1	nOY1727952679
PH01		S	1/4/2023	15:10	20' Grab/	1	×	××					
PH01		S	1/4/2023		21' Grab/	1	×	××					
			THE REAL	01-04-1	2023	1							
										-			
Total 200.7 / 6010	200.8 / 6020:	20:	8R	BRCRA 13PPM	M Texas 11	AI Sb	As	Ba Be B	Cd Ca Cr Co Cu Fe		K Se /	0 ₂ Na Sr TI Sn	
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be	analyz	zed	TCLP / SPLP 6010:	LP 6010: 8R	BRCRA	SD A	Sb As Ba Be	CO CF CO CU PD MIN	IT IND IN SE	NO NI SE AG IL U ING. IO	rig. 10317 243.17 7470	11411
Notice: Signature of this docur of service. Eurofins Xenco wil of Eurofins Xenco. A minimun	ment and relinqui Il be liable only fo n charge of \$85.0	shment o r the cost) will be a	f samples constit t of samples and a applied to each pr	utes a valid purc shall not assume oject and a char	shase order from o any responsibiliting of \$5 for each	lient cor for any sample :	mpany to losses o submittee	o Eurofins X or expenses d to Eurofine	nco, its affiliates and subcontr incurred by the client if such lo Xenco, but not analyzed. Thes	ractors. It assign osses are due to o se terms will be en	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	ated.	
Relinquished by: (Signature)	ignature)		Received	Received by: (Signature)	uľe)		Date/	Date/Time	Relinquished by: (Signature)	(Signature)	Received by: (Signature)	nature)	Date/Time
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1/6/2023

Released to Imaging: 7/31/2023 7:52:00 AM

Page 23 of 25

Chain of Custody

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3770 List Number: 1 Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

14

Job Number: 890-3770-1 SDG Number: 03A1987030

List Source: Eurofins Carlsbad

Job Number: 890-3770-1 SDG Number: 03A1987030

List Source: Eurofins Midland

List Creation: 01/06/23 11:27 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3770 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14





5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307001

Job Number: 01058-0007

> Received: 7/5/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

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

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H Workorder: E307001 Date Received: 7/5/2023 8:15:00AM

Anna Byers,



Page 79 of 139

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

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

Envirotech Web Address: www.envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH02 0.5'	5
PH02 10'	6
PH02 18'	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

Page 81 of 139

		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Toro 22-3H		Depented
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Anna Byers		07/10/23 14:57
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
		Matrix	Sampicu	Received	Container
PH02 0.5'	E307001-01A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.
PH02 10'	E307001-02A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.
PH02 18'	E307001-03A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.



	50	ample D	ala			
WPX Energy - Carlsbad	Project Name:	Toro	o 22-3H			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ann	a Byers			7/10/2023 2:57:54PM
		PH02 0.5'				
		E307001-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
p,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Total Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	51.9	50.0	2	07/06/23	07/07/23	
Oil Range Organics (C28-C36)	ND	100	2	07/06/23	07/07/23	
Surrogate: n-Nonane		89.2 %	50-200	07/06/23	07/07/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2327028
Chloride	77.8	20.0	1	07/06/23	07/07/23	

Sample Data



	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	:: Toro	o 22-3H			
5315 Buena Vista Dr	Project Numb	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Ann	a Byers			7/10/2023 2:57:54PM
		PH02 10'				
		E307001-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
p,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Total Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
Surrogate: n-Nonane		86.9 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2327028
Chloride	1040	20.0	1	07/06/23	07/07/23	



	D D	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	e: Toro	о 22-3Н			
5315 Buena Vista Dr	Project Numb	ber: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Mana	ger: Ann	a Byers			7/10/2023 2:57:54PM
		PH02 18'				
		E307001-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
p,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Total Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
Surrogate: n-Nonane		85.1 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2327028
Chloride	676	20.0	1	07/06/23	07/07/23	



QC Summary Data

		Y U U	ummu	ing Duc	u				
WPX Energy - Carlsbad		Project Name:		oro 22-3H					Reported:
5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager:	Ai	nna Byers					7/10/2023 2:57:54PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	ND	0.0250					1		5
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			
LCS (2327003-BS1)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	4.90	0.0250	5.00		97.9	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
p-Xylene	4.89	0.0250	5.00		97.8	70-130			
p,m-Xylene	9.84	0.0500	10.0		98.4	70-130			
Total Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			
Matrix Spike (2327003-MS1)				Source:	E306248-	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	4.76	0.0250	5.00	ND	95.3	54-133			
Ethylbenzene	4.64	0.0250	5.00	0.0264	92.3	61-133			
Toluene	4.84	0.0250	5.00	0.0757	95.3	61-130			
o-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
p,m-Xylene	9.64	0.0500	10.0	0.0702	95.7	63-131			
Total Xylenes	14.4	0.0250	15.0	0.0702	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			
Matrix Spike Dup (2327003-MSD1)					E306248-				nalyzed: 07/05/23
Benzene	4.93	0.0250	5.00	ND	98.5	54-133	3.38	20	
Ethylbenzene	4.79	0.0250	5.00	0.0264	95.4	61-133	3.20	20	
Toluene	5.00	0.0250	5.00	0.0757	98.4	61-130	3.11	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.22	20	
		0.0500	10.0	0.0702	98.8	63-131	3.19	20	
p,m-Xylene Total Xylenes	9.95 14.9	0.0500 0.0250	15.0	0.0702	98.9	63-131	3.20	20	



QC Summary Data

		QC D	umme	ii y Data	4				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	oro 22-3H 058-0007 nna Byers					Reported: 7/10/2023 2:57:54PM
	Nor	nhalogenated C	Organics	by EPA 801	15D - GI	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.6	70-130			
LCS (2327003-BS2)							Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			
Matrix Spike (2327003-MS2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			
Matrix Spike Dup (2327003-MSD2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

QC Summary Data

		VC B	umma	ir y Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	oro 22-3H 058-0007 nna Byers					Reported: 7/10/2023 2:57:54PM
	Nonh	alogenated Orga	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327033-BLK1)							Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36) Surrogate: n-Nonane	ND 46.0	50.0	50.0		91.9	50-200			
LCS (2327033-BS1)							Prepared: 0	7/06/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			-
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2327033-MS1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	366	25.0	250	93.6	109	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			
Matrix Spike Dup (2327033-MSD1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	383	25.0	250	93.6	116	38-132	4.62	20	
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			



QC Summary Data

		QU D	u 111111	ary Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	Coro 22-3H 1058-0007 Anna Byers					Reported: 7/10/2023 2:57:54PM
		Anions l	by EPA	300.0/9056A	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327028-BLK1)							Prepared: 0	7/06/23 A	nalyzed: 07/07/23
Chloride	ND	20.0							
LCS (2327028-BS1)							Prepared: 0	7/06/23 A	nalyzed: 07/07/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2327028-MS1)				Source:	E306247-(01	Prepared: 0	7/06/23 A	nalyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120			
Matrix Spike Dup (2327028-MSD1)				Source:	E306247-0	01	Prepared: 0	7/06/23 A	nalyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120	0.00794	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.



	Deminions		
WPX Energy - Carlsbad	Project Name:	Toro 22-3H	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	07/10/23 14:57
	5315 Buena Vista Dr	WPX Energy - CarlsbadProject Name:5315 Buena Vista DrProject Number:	5315 Buena Vista Dr Project Number: 01058-0007

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.



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Client: V	VPX Energy Pe	rmian LL(C.			Bill To				تا ز	b U	se Or	ıly 🚲					ΓΑΤ		EPA P	rogram
	Toro 22-3H					tention: Jim Raley			WO		2.0		Num		· .) 20) 3[tandard	CWA	SDWA
	Manager: Anna				phone the second se	dress: 5315 Buena Vista Dr.		E	307	709				0007				5	day TAT		
	: 13000 W Cou					ty, State, Zip: Carlsbad, NM, 8822	0					Analy	/sis ar	nd Meth	od						RCRA
	te, Zip_Odessa		55		Ph	ione: 575-885-7502		1	à			1							E legis Francia		
Phone: (575) 200-6754					nail: jim.raley@dvn.com			ю Х											State	
Email: D	evon-team@e		com		1.60.0	O: EE.151032.01.ABD			1 2 2	ដ	8	9	0.0		N N		Ă		NM CO	UT AZ	
Phone: (Email: D Collecte	d by: Edyte Ko	nan			line in the second s	cident ID: nOY1727952679		Ê	Ŋ.	8	y 82	60	de 3(
	Date Sampled	Matrix	No. of Containers	Sample ID)		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				GDOC			Remarks	
Sampled 8:00	6/30/2023	S	1			PH02		0.5')	(
8:10	6/30/2023	S	1			PH02	2	10')	(
8:20	6/30/2023	S	1			PH02	3	18'	ł						,	(
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Additio	nal Instruction	is:																			
	pler), attest to the e of collection is co					at tampering with or intentionally mislabelling Sampled by:	; the sample lo	ocatio	n,				-	-					red on ice the da than 6 °C on sub		pled or
Relinquish Edyte Kona	ed by: (Signature)	Date 06/3	0/2023	Time 14:20	Received by: (Signature) Michelle R Gonzales	Date 6-30-2	23	Time 1	420)	Rec	eiver	l on ice		Lab V	Use (Dnly			
Relinguish	ed by: (Signature Nelle R Gol	, nzale.s	Date	30-23	^{Time} 1615	Regeived by: (Signature)	Date	72	Time			T1							<u>73</u>		
	ed by: (Signature		Date		Time	Received by: (Signature)	Date		Time					np °C_	4						
Sample Ma	trix: S - Soil, Sd - So	lid. Sg - Slud	ge, A - Aque	ous, O - Othe	<u> </u>		Containe	r Tvp	e: g -	glass	. D -					glass	. v - V	<u>.</u> 0A	State Sector	All and the	488-51
Note: Sam	ples are discarde	d 30 days a	fter results	are reporte	d unless other	arrangements are made Hazardous sam this COC. The liability of the laboratory is	ples will be	returr	ned to	client	: or di	spose	d of at						for the analy	sis of the ab	sove
Learning is	applicable only t	u uiuse sar	nhies Lecell	red by the la	boratory with	this coc. The hability of the laboratory is	mated to th	ie am	ount p			ine re	JUIL.								
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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad D	ate Received:	07/05/23 (08:15	Work Order ID:	E307001
Phone:	(575) 200-6754 D	ate Logged In:	07/05/23	09:01	Logged In By:	Caitlin Mars
Email:	anna@etechenv.vom D	ue Date:	07/11/23	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
1. Does t	the sample ID match the COC?		Yes			
2. Does t	the number of samples per sampling site location match	the COC	Yes			
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	he COC complete, i.e., signatures, dates/times, requested	d analyses?	Yes			
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Commen</u>	ts/Resolution
Sample '	Turn Around Time (TAT)					
	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	· •					
	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re		Yes			
12 Ifno	minutes of sampling visible ice, record the temperature. Actual sample te	mporatura: 1º	C			
		inperature. <u>4</u>	<u>c</u>			
	Container aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		No NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	e appropriate volume/weight or number of sample containers	s collected?	Yes			
Field La		s concetteu:	105			
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?	IUII011	Yes			
	Date/Time Collected?		Yes			
(Collectors name?		Yes			
Sample]	Preservation					
21. Does	s the COC or field labels indicate the samples were prese	erved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	b filteration required and/or requested for dissolved meta	als?	No			
<u>Multiph</u>	ase Sample Matrix					
26. Does	s the sample have more than one phase, i.e., multiphase?	2	No			
27. If yes	s, does the COC specify which phase(s) is to be analyze	ed?	NA			
<u>Subcont</u>	tract Laboratory_					
28. Are s	samples required to get sent to a subcontract laboratory?	2	No			
29. Was	a subcontract laboratory specified by the client and if so	o who?	NA	Subcontract Lab: NA		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:

Toro 22-3H

Work Order: E307003

Job Number: 01058-0007

> Received: 7/5/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

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

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H Workorder: E307003 Date Received: 7/5/2023 8:15:00AM

Anna Byers,



Page 93 of 139

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding 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
PH02 21'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

v		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	Toro 22-3H		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reporteu:
Carlsbad NM, 88220		Project Manager:	Anna Byers		07/10/23 15:01
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 21'	E307003-01A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.



	52	ample D	ลเล			
WPX Energy - Carlsbad	Project Name:	Toro	o 22-3H			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ann	a Byers			7/10/2023 3:01:38PM
		PH02 21'				
		E307003-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
o,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Fotal Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.2 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Dil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
Surrogate: n-Nonane		87.3 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2327028
Chloride	254	20.0	1	07/06/23	07/07/23	

Sample Data



QC Summary Data

Project Name:	Tor	o 22-3H					
5							Reported:
Project Number:	010	58-0007					
Project Manager:	An	na Byers					7/10/2023 3:01:38PM
Volatile Or	rganics by	y EPA 802	21B				Analyst: IY
Reporting	Spike	Source		Rec	DDD	RPD	
mg/kg	Level mg/kg	mg/kg	Rec %	Limits %	KPD %	Limit %	Notes
					Prepared: 0	7/05/23 A	nalyzed: 07/05/23
0.0250							
0.0250							
0.0250							
0.0250							
0.0500							
0.0250							
	8.00		105	70-130			
					Prepared: 0	7/05/23 A	nalyzed: 07/05/23
0.0250	5.00		97.9	70-130			
0.0250	5.00		95.0	70-130			
0.0250	5.00		98.2	70-130			
0.0250	5.00		97.8	70-130			
0.0500	10.0		98.4	70-130			
0.0250	15.0		98.2	70-130			
	8.00		103	70-130			
		Source:	E306248-2	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
0.0250	5.00	ND	95.3	54-133			
0.0250	5.00	0.0264	92.3	61-133			
0.0250	5.00	0.0757	95.3	61-130			
0.0250	5.00	ND	96.0	63-131			
0.0500	10.0	0.0702	95.7	63-131			
0.0250	15.0	0.0702	95.8	63-131			
	8.00		102	70-130			
		Source:	E306248-2	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
0.0250	5.00	ND	98.5	54-133	3.38	20	
0.0250	5.00	0.0264	95.4	61-133	3.20	20	
0.0250	5.00	0.0757	98.4	61-130	3.11	20	
0.0250	5.00	ND	99.1	63-131	3.22	20	
0.0500	10.0	0.0702	98.8	63-131	3.19	20	
0.0250	15.0	0.0702	98.9	63-131	3.20	20	
0.0200	8.00		101	70-130			
_	Project Manager: Volatile Or Reporting Limit mg/kg 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	Project Manager: Am Volatile Organics by Reporting Limit Spike Level mg/kg mg/kg 0.0250	Project Manager: Anna Byers Volatile Urganics by EPA 802 Reporting Limit Spike Level Source Result mg/kg mg/kg mg/kg 0.0250	Project Manager: Anna Byers Volatile Organics by EPA 8021B Reporting Limit Spike Level Source Result Result mg/kg Rec mg/kg 0.0250 mg/kg mg/kg % 0.0250	Project Manager: Anna Byers Volatile Urganics by EPA 8021B Reporting Limit Spike Level Source Result Rec Rimits mg/kg mg/kg mg/kg % % % 0.0250 mg/kg mg/kg % % % 0.0250 sevent sevent sevent % % 0.0250 sevent sevent sevent sevent % % 0.0250 sevent seven	Project Manager: Anna Byers Volatile Veganics by EPA 8021B Reporting Limit Spike Level Source Result Rec Limits Rep MPD mg/kg mg/kg mg/kg % % % 0.0250 mg/kg mg/kg % % % 0.0250	Project Manager: Anna Byers Volatile Urganics by EPA 8021B Reporting Limit Spike mg/kg Source Result Rec Rec Mg/kg Rec Mg/kg Rec Mg/kg Rep Mg/kg Rep Mg/kg </td



QC Summary Data

		QC D	u111111	ii y Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	oro 22-3H 1058-0007 nna Byers					Reported: 7/10/2023 3:01:38PM
	No	nhalogenated C	Organics	by EPA 80	15D - GI	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	Analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.6	70-130			
LCS (2327003-BS2)							Prepared: 0	7/05/23 A	Analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			
Matrix Spike (2327003-MS2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	Analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			
Matrix Spike Dup (2327003-MSD2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	Analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

QC Summary Data

		QC D	umma	ii y Data	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	oro 22-3H .058-0007 nna Byers					Reported: 7/10/2023 3:01:38PM
	Nonha	logenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327033-BLK1)							Prepared: 0	7/06/23 A	Analyzed: 07/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.0		50.0		91.9	50-200			
LCS (2327033-BS1)							Prepared: 0	7/06/23 A	Analyzed: 07/10/23
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2327033-MS1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	Analyzed: 07/07/23
Diesel Range Organics (C10-C28)	366	25.0	250	93.6	109	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			
Matrix Spike Dup (2327033-MSD1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	Analyzed: 07/07/23
Diesel Range Organics (C10-C28)	383	25.0	250	93.6	116	38-132	4.62	20	
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			

QC Summary Data

		$\mathbf{x} \in \mathbf{z}$	~~~~~		~				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	oro 22-3H 1058-0007 nna Byers					Reported: 7/10/2023 3:01:38PM
		Anions	by EPA 3	300.0/90564	۸				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327028-BLK1)							Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride LCS (2327028-BS1)	ND	20.0					Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2327028-MS1)				Source:	E306247-	01	Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120			
Matrix Spike Dup (2327028-MSD1)				Source:	E306247-0	01	Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120	0.00794	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.



_		2 cinnerons		
Γ	WPX Energy - Carlsbad	Project Name:	Toro 22-3H	
L	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
L	Carlsbad NM, 88220	Project Manager:	Anna Byers	07/10/23 15:01

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: w	VPX Energy Pe	rmian LL∕	.C.			Bill To				- 1 E	ab Us	se O	nly:				Т	TAT	,	1 EPA Pr	rogram
	Toro 22-3H				Á†	ttention: Jim Raley		Lat	b WOł	#	3 (1 7	Job	Num	iber	1	D 20			tandard	CWA	SDWA
	Manager: Anna					ddress: 5315 Buena Vista Dr.		E	30	700	3_	010	158-	-000-	7			5	day TAT		
	: 13000 W Cou					ty, State, Zip: Carlsbad, NM, 88	220							nd Met						<u> </u>	RCRA
	te, Zip_Odessa		65		1000	none: 575-885-7502			Å				T					Ī	Que de	<u>(</u>	
	575) 200-6754					mail: jim.raley@dvn.com		_	/orc				.							State	
	evon-team@e		com			O: EE.151032.01.ABD		4	DRO/	្ត	8	l g	0.0		7	Σ	μ			UT AZ	XTX
	d by: Edyte Ko	nan			<u> </u>	cident ID: nOY1727952679	Contractory of the	- E	RO/I	<u>م</u> 8	y 82	s 60:	de 31						L'	'ــــلــــــــــــــــــــــــــــــــ	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II	D		Lab Number,	Depth	TPH GRO/DRO/ORO by 8015	8015 BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		^i	BGDOC	GDOC		<u> </u>	Remarks	
8:30	6/30/2023	s	1			PH02		21'						Щ		x					
		L'																			
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Addition	al Instruction] is:	L	<u> </u>			in the second	L			L	L		┟──┟╴					<u> </u>		
	pler), attest to the v e of collection is con					at tampering with or intentionally mislabel Sampled by:	ling the sample ic	ocation	in,					-	•				ed on ice the day than 6 °C on subs		-
	ed by: (Signature)		Date		Time 14:20	Received by: (Signature) Michelle R Gonzales	Date ∫ 6-30-2		Time 1	1420	 ז	Ret	roive	d on ice	· A •		Use Oi N	nly			
Relinquishe	ed by: (Signature) Helle R GO	nzales	Date	-30-23	Time 1615	Received by signature	Date 7/5/2		Time			ТТ Т1				יצי זי			T 3 }		
	ed by: (Signature)		Date		Time	Received by: (Signature)	Date		Time				- Ter	np°C_	- " 4						
ample Mat	trix: S - Soil, Sd - Soll	lid. Sg - Sludr	Re. A - Aquer	ous. O - Othe	 ۲		Container	ar Tyr	ne: g -	- glass	5. 10 - 1	_				r ølass	<u>. v - V(</u>	<u></u> A	<u>yyttän Elissinan</u>	<u></u>	ىي بەرەلەيىتىرىكى يەر <u>ي</u>
						arrangements are made. Hazardous s													or the analy	sis of the at	hove

Envirotech Analytical Laboratory

Client:	WPX Energy - Carlsbad Dat	e Received:	07/05/23	08:15	Work Order ID:	E307003
Phone:	(575) 200-6754 Dat	e Logged In:	07/05/23	09:13	Logged In By:	Caitlin Mars
Email:		e Date:		17:00 (4 day TAT)		
Chain a	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match t	he COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes	Carrier. <u>Courier</u>		
	all samples received within holding time?	, ,	Yes			
	Note: Analysis, such as pH which should be conducted in the	field,			Common	ts/Resolution
с I	i.e, 15 minute hold time, are not included in this disucssion.				Commen	ts/ Resolution
	Turn Around Time (TAT)		Yes			
o. Did ui Sample	ne COC indicate standard TAT, or Expedited TAT?		105			
	sample cooler received?		Yes			
	, was cooler received in good condition?		Yes			
•	he sample(s) received intact, i.e., not broken?		Yes			
	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	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 rec minutes of sampling	eived w/i 15				
13. If no	visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>			
	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	11 4 - 10	Yes			
	e appropriate volume/weight or number of sample containers	conjected?	Yes			
Field La	aner e field sample labels filled out with the minimum informa	tion				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation					
	s the COC or field labels indicate the samples were preser	ved?	No			
	sample(s) correctly preserved?	0	NA			
	b filteration required and/or requested for dissolved metal	S?	No			
-	nase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
27. If ye	s, does the COC specify which phase(s) is to be analyzed	?	NA			
Subcont	tract Laboratory					
	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		







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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name:

Toro 22-3H

Work Order: E307002

Job Number: 01058-0007

> Received: 7/5/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

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

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H Workorder: E307002 Date Received: 7/5/2023 8:15:00AM

Anna Byers,



Page 105 of 139

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding 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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Envirotech Web Address: www.envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 0.5'	5
PH03 10'	6
PH03 18'	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

Page 107 of 139

		Sample Sum	mai y		
WPX Energy - Carlsbad		Project Name:	Toro 22-3H		Banautade
5315 Buena Vista Dr		Project Number:			Reported:
Carlsbad NM, 88220		Project Manager:	Anna Byers		07/10/23 14:59
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 0.5'	E307002-01A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.
PH03 10'	E307002-02A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.
PH03 18'	E307002-03A	Soil	06/30/23	07/05/23	Glass Jar, 2 oz.



	56	ample D	ala			
WPX Energy - Carlsbad	Project Name:	Toro	22-3H			
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	er: Ann	a Byers			7/10/2023 2:59:30PM
		PH03 0.5'				
	-	E307002-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
o,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Total Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	161	50.0	2	07/06/23	07/08/23	
Dil Range Organics (C28-C36)	141	100	2	07/06/23	07/08/23	
Surrogate: n-Nonane		87.0 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2327028
Chloride	267	20.0	1	07/06/23	07/07/23	

Sample Data


	5	ample D	ala			
WPX Energy - Carlsbad	Project Name:	Toro	22-3H			
5315 Buena Vista Dr	Project Numb	er: 0105	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ann	a Byers			7/10/2023 2:59:30PM
		PH03 10'				
		E307002-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
o,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Fotal Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
Surrogate: n-Nonane		90.4 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2327028
Chloride	975	20.0	1	07/06/23	07/07/23	

	3	ample D	ลเล			
WPX Energy - Carlsbad	Project Name	: Toro	o 22-3H			
5315 Buena Vista Dr	Project Numb	oer: 010	58-0007			Reported:
Carlsbad NM, 88220	Project Manag	ger: Ann	a Byers			7/10/2023 2:59:30PM
		PH03 18'				
		E307002-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2327003
Benzene	ND	0.0250	1	07/05/23	07/06/23	
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23	
Toluene	ND	0.0250	1	07/05/23	07/06/23	
p-Xylene	ND	0.0250	1	07/05/23	07/06/23	
o,m-Xylene	ND	0.0500	1	07/05/23	07/06/23	
Fotal Xylenes	ND	0.0250	1	07/05/23	07/06/23	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2327003
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130	07/05/23	07/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2327033
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23	
Surrogate: n-Nonane		81.6 %	50-200	07/06/23	07/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2327028
Chloride	802	20.0	1	07/06/23	07/07/23	



QC Summary Data

		QU D	4111114	ing Dat	a				
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	oro 22-3H 1058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	Aı	nna Byers					7/10/2023 2:59:30PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
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	8.37		8.00		105	70-130			
LCS (2327003-BS1)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	4.90	0.0250	5.00		97.9	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.91	0.0250	5.00		98.2	70-130			
-Xylene	4.89	0.0250	5.00		97.8	70-130			
o,m-Xylene	9.84	0.0500	10.0		98.4	70-130			
Fotal Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			
Matrix Spike (2327003-MS1)				Source:	E306248-	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	4.76	0.0250	5.00	ND	95.3	54-133			
Ethylbenzene	4.64	0.0250	5.00	0.0264	92.3	61-133			
Toluene	4.84	0.0250	5.00	0.0757	95.3	61-130			
p-Xylene	4.80	0.0250	5.00	ND	96.0	63-131			
o,m-Xylene	9.64	0.0500	10.0	0.0702	95.7	63-131			
Total Xylenes	14.4	0.0250	15.0	0.0702	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			
Matrix Spike Dup (2327003-MSD1)				Source:	E306248-	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Benzene	4.93	0.0250	5.00	ND	98.5	54-133	3.38	20	
Ethylbenzene	4.79	0.0250	5.00	0.0264	95.4	61-133	3.20	20	
Toluene	5.00	0.0250	5.00	0.0757	98.4	61-130	3.11	20	
o-Xylene	4.96	0.0250	5.00	ND	99.1	63-131	3.22	20	
o,m-Xylene	9.95	0.0500	10.0	0.0702	98.8	63-131	3.19	20	
Total Xylenes	14.9	0.0250	15.0	0.0702	98.9	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			



QC Summary Data

		$\mathbf{x} \mathbf{v} \mathbf{v}$		i j Duu					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		oro 22-3H 058-0007					Reported:
Carlsbad NM, 88220		Project Manager	A	nna Byers					7/10/2023 2:59:30PM
	Noi	nhalogenated (Organics	by EPA 80	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.6	70-130			
LCS (2327003-BS2)							Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			
Matrix Spike (2327003-MS2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			
Matrix Spike Dup (2327003-MSD2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



QC Summary Data

		QC DI	u 111111 a	ing Date					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	01	oro 22-3H .058-0007					Reported:
Carlsbad NM, 88220		Project Manager:	A	nna Byers					7/10/2023 2:59:30PM
	Nonha	logenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327033-BLK1)							Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.0		50.0		91.9	50-200			
LCS (2327033-BS1)							Prepared: 0	7/06/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2327033-MS1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	366	25.0	250	93.6	109	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			
Matrix Spike Dup (2327033-MSD1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	383	25.0	250	93.6	116	38-132	4.62	20	
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$							
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	01	oro 22-3H 1058-0007 nna Byers					Reported: 7/10/2023 2:59:30PI
		Anions	by EPA 3	300.0/90564	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
Blank (2327028-BLK1)	ND	20.0					Prepared: 0'	7/06/23	Analyzed: 07/07/23
LCS (2327028-BS1)							Prepared: 0'	7/06/23	Analyzed: 07/07/23
Chloride Matrix Spike (2327028-MS1)	253	20.0	250	Source:	101 E306247-0	90-110)1	Prepared: 0'	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120			
Matrix Spike Dup (2327028-MSD1)				Source:	E306247-0)1	Prepared: 0'	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120	0.00794	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.



		2 cimicions		
Γ	WPX Energy - Carlsbad	Project Name:	Toro 22-3H	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Anna Byers	07/10/23 14:59

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.



Bill To Lab, Use, Only TAT Project: Manager: Anna Buyer Lab, WO's, ONLY 10 20 30 Standard Address: 31200 W County Rd 100 Cliv, State, Zip: Carlsbad, NM, 88220 Cliv, State, Zip: Carlsbad, NM, 88220 Andress: 31200 W County Rd 100 Cliv, State, Zip: Carlsbad, NM, 88220 Andress: 31200 W County Rd 100 Cliv, State, Zip: Carlsbad, NM, 88220 Andress: 3120 Standard Phone: 575: 885-7502 Time Bill: Imc advect Monon Sample Date Sampled Mutrit Colamer Sample ID Xall Bate, Miniteer Monon Sample Date Sampled Mutrit Colamer Sample ID Xall Imc Immer Monon Xall Imc Immer Monon Sample Date Sampled Mutrit Colamer Sample Date Sample ID Xall Immer Monon Xall Immer Monon Sample ID Value Xall Immer Monon Xall Immer Monon	Page
Project: Toro 22.3H Attention: Jim Raley Jak Work Jak Work Job Work ID 2D 3D Standard Project: Toro 22.3H Address: 3135 Buena Vista Dr. Calescience Calescience Standard Standard Address: 3105 Buena Vista Dr. City, State, Zip, Carlsbad, NM, 8820 Analysis and Wethod Nanalysis and Wethod Nanalysis and Wethod Phone: (575) 200-7547 Email: Devon-team@etechenv.com Work EL S1032.01.A8D Incident ID: nOV1727952679 Nanalysis and Wethod NMI CO Callected by: Edyte Konan Samplet D Matrix None (57) Nanalysis and Natio Nation NMI CO Samplet D Samplet D Matrix Nation Samplet D Nation X V V 8:40 G/30/2023 S 1 PH03 2 V X V V V 9:00 6/30/2023 S 1 PH03 2 V V V V V V V V V V V V V V V V V V V V V <t< td=""><td>EPA Program</td></t<>	EPA Program
Project Manager: Ana Buyer Address: 5315 Buena Vista Dr. Edit of Control (0) Close of Control (0) Star (0) Address: 13000 W County Rd 100 City, State, Zip. Carlsbad, NM, 8820 Analysis and Method Analysis and Method Phone: (575) 200-6754 Email: Jim:raley@dn.com Final: Devon-team@etechenv.com Final: Devon-team@etechenv.com Final: Devon-team@etechenv.com Final: Devon-team@etechenv.com Final: Devon-team@etechenv.com Final: Devon team@etechenv.com Final: Devon-team@etechenv.com Final: Devon-team@etecheveetecheveetechenv.com Final: Devon-team	CWA SDWA
Address: 1300 W County Rd 100 City, State, Zip: Carlsbad, NM, 88220 Analysis and Method City, State, Zip: Colessa, TX, 79765 Phone: (575-885-7502 NM (Colessa, TX, 79765) Phone: (575) 200-6754 Email: im:raley@dvn.com NM (Colessa, TX, 79765) Collected by: Edyte Konan WO: EE. 151032.01.ABD NM (Colessa, TX, 79765) Collected by: Edyte Konan WO: EE. 151032.01.ABD NM (Colessa, TX, 79765) Collected by: Edyte Konan WO: EE. 151032.01.ABD NM (Colessa, TX, 79765) Sampled Date Sampled Matrix Matrix M (Colessa, TX, 79765) Sampled Date Sampled Matrix Sample ID NM (Colessa, TX, 79765) NM (Colessa, TX, 79765) Sampled Date Sampled Matrix Matrix Sample ID NM (Colessa, TX, 79765) Sampled Date Sampled Matrix Sample ID NM (Colessa, TX, 79765) NM (Colessa, TX, 79765) Sampled Date Sampled Matrix Sample ID NM (Colessa, TX, 79765) NM (Colessa, TX, 79765) Sampled Date Sampled Matrix Sample ID NM (Colessa, TX, 79765) NM (Colessa, TX, 79765) Sample ID Date Sampled Matrix	
City, State, Zip_Odessa, TX, 79765 Phone: 575-885-7502 Image: Control of the sample of the same of the same of the same of	RCRA
8:40 6/30/2023 S 1 PH03 1 0.5' I X I I 8:50 6/30/2023 S 1 PH03 2 10' I I X I I 9:00 6/30/2023 S 1 PH03 3 18' I I X I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	
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9:00 6/30/2023 S 1 PH03 3 18' X X I Image: Second Seco	
Image: state of the sample of the sample. I am aware that tampering with or intentionally mislabelling the sample location, Samples requiring thermal preservation must be received on ice the day of the sample of the sample location,	
Image: Statest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, Samples requiring thermal preservation must be received on ice the day on the the state preservation must be received on ice the day on the the state preservation must be received on ice the day on the sample location,	
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dditional Instructions:	
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dditional Instructions:	
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location,	
te or time of collection is considered fraud and may be grounds for legal action. Sampled by:	
	equent days.
elinquished by: (Signature) Date 06/30/2023 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:20 Date 14:2	
Alinquished by: (Signature) Date Time Repeived M: (Signature) Date Time (Repeived M: (Signature) Date Time (15/23) Time (1	
elinquished by: (Signature) Date Time Received by: (Signature) Date Time AVG Temp C	
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	
lote: 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 analys amples 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.	is of the above

Envirotech Analytical Laboratory

		ii , ii Steen		ticui Eusorator j		1 mileu. 7/5/2025 10.42.50/401
structions	Please take note of any NO checkmarks.	Sample	Receipt	Checklist (SRC)		
	no response concerning these items within 24 hours of the	date of this not	ice, all the	samples will be analyzed as req	uested.	
Client:	WPX Energy - Carlsbad	Date Received:	07/05/23	08:15	Work Order ID:	E307002
Phone:	(575) 200-6754 E	Date Logged In:	07/05/23	09:08	Logged In By:	Caitlin Mars
Email:	anna@etechenv.vom E	Due Date:	07/11/23	17:00 (4 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
2. Does t	he number of samples per sampling site location match	the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was th	e COC complete, i.e., signatures, dates/times, requeste	d analyses?	Yes			
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.		Yes		Commen	ts/Resolution
Sample '	Furn Around Time (TAT)					
-	e 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 th	e 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			
	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re- minutes of sampling visible ice, record the temperature. Actual sample te	eceived w/i 15	Yes			
	<u>Container</u>	1				
_	queous VOC samples present?		No			
	/OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	rs collected?	Yes			
Field La	bel					
20. Were	field sample labels filled out with the minimum inform	nation:				
	ample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
_	Preservation_ the COC or field labels indicate the samples were pres	amzad9	No			
	ample(s) correctly preserved?	civeu?	No NA			
	filteration required and/or requested for dissolved met	als?	No			
			110			
-	ase Sample Matrix_ the sample have more than one phase, i.e., multiphase'	0	NT			
	the sample nave more than one phase, i.e., multiphase s, does the COC specify which phase(s) is to be analyze		No			
		Jui	NA			
	ract Laboratory	_				
	amples required to get sent to a subcontract laboratory' a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab: NA		
<u>Client</u> I	nstruction					

Client Instruction

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: Toro 22-3H

Work Order: E307004

Job Number: 01058-0007

> Received: 7/5/2023

> > Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/10/23

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

Date Reported: 7/10/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3H Workorder: E307004 Date Received: 7/5/2023 8:15:00AM

Anna Byers,



Page 119 of 139

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/5/2023 8:15:00AM, under the Project Name: Toro 22-3H.

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

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding 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

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
PH03 21'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Page 121 of 139

		Sample Sum	mary		
WPX Energy - Carlsbad		Project Name:	Toro 22-3H		Reported:
5315 Buena Vista Dr		Project Number:	01058-0007		Reported:
Carlsbad NM, 88220		Project Manager:	Anna Byers		07/10/23 15:03
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container



	Di	ample D	ala				
WPX Energy - Carlsbad	Project Name:	Torc	22-3H				
5315 Buena Vista Dr	Project Numbe	er: 0105	58-0007		Reported:		
Carlsbad NM, 88220	Project Manag	ger: Ann	a Byers			7/10/2023 3:03:33PM	
		PH03 21'					
		E307004-01					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2327003	
Benzene	ND	0.0250	1	07/05/23	07/06/23		
Ethylbenzene	ND	0.0250	1	07/05/23	07/06/23		
Toluene	ND	0.0250	1	07/05/23	07/06/23		
p-Xylene	ND	0.0250	1	07/05/23	07/06/23		
p,m-Xylene	ND	0.0500	1	07/05/23	07/06/23		
Total Xylenes	ND	0.0250	1	07/05/23	07/06/23		
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/05/23	07/06/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2327003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/05/23	07/06/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	07/05/23	07/06/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2327033	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/06/23	07/08/23		
Oil Range Organics (C28-C36)	ND	50.0	1	07/06/23	07/08/23		
Surrogate: n-Nonane		89.9 %	50-200	07/06/23	07/08/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2327028	
Chloride	287	20.0	1	07/06/23	07/07/23		

Sample Data



QC Summary Data

	Q U 51		v					
	Project Name: Project Number:							Reported:
	Project Manager:							7/10/2023 3:03:33PM
	Volatile O	rganics b	y EPA 802	21B				Analyst: IY
Regult	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 0	7/05/23 A	nalyzed: 07/05/23
ND	0.0250							
8.37	0.0250	8.00		105	70-130			
						Prepared: 0	7/05/23 A	nalyzed: 07/05/23
4.90	0.0250	5.00		97.9	70-130			
4.75		5.00		95.0	70-130			
4.91		5.00		98.2	70-130			
4.89		5.00		97.8	70-130			
9.84		10.0		98.4	70-130			
14.7		15.0		98.2	70-130			
8.21		8.00		103	70-130			
			Source:	E306248-2	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
4.76	0.0250	5.00	ND	95.3	54-133			
4.64	0.0250	5.00	0.0264	92.3	61-133			
4.84	0.0250	5.00	0.0757	95.3	61-130			
4.80	0.0250	5.00	ND	96.0	63-131			
9.64	0.0500	10.0	0.0702	95.7	63-131			
14.4	0.0250	15.0	0.0702	95.8	63-131			
8.15		8.00		102	70-130			
			Source:	E306248-2	23	Prepared: 0	7/05/23 A	nalyzed: 07/05/23
						2.20		
4.93	0.0250	5.00	ND	98.5	54-133	3.38	20	
4.93 4.79	0.0250 0.0250	5.00 5.00	ND 0.0264	98.5 95.4	54-133 61-133	3.38	20 20	
4.79	0.0250	5.00	0.0264	95.4	61-133	3.20	20	
4.79 5.00	0.0250 0.0250	5.00 5.00	0.0264 0.0757	95.4 98.4	61-133 61-130	3.20 3.11	20 20	
4.79 5.00 4.96	0.0250 0.0250 0.0250	5.00 5.00 5.00	0.0264 0.0757 ND	95.4 98.4 99.1	61-133 61-130 63-131	3.20 3.11 3.22	20 20 20	
	ND ND ND ND ND ND ND ND ND ND 8.37 4.90 4.75 4.91 4.89 9.84 14.7 8.21 4.76 4.64 4.84 4.80 9.64 14.4	Project Name: Project Number: Project Manager: Volatile Or Result mg/kg Reporting Limit mg/kg ND 0.0250 A.37	Project Name: To Project Number: 01 Project Manager: An Volatile Organics b Result Reporting Limit Spike Level mg/kg mg/kg mg/kg ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND ND 0.0250 ND ND 0.0250 Solo ND 0.0250 ND ND 0.0250 Solo 4.90 0.0250 Solo 4.91 0.0250 Solo 4.89 0.0250 Solo 8.21 8.00 Solo 4.64 0.0250 Solo 4.84 0.0250 Solo 4.80 0.0250 Solo <td>Project Name: Toro 22-3H Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 802 Result Reporting Spike Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 8.00 4.90 0.0250 5.00 A175 0.0250 5.00 4.90 0.0250 5.00 4.91 0.0250 5.00 4.92 8.00 Source 4.93 0.0250 5.00 8.21 8.00 ND 4.76 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND</td> <td>Project Name: Toro 22-3H Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source Result Rec ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 5.00 97.9 4.75 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 8.21 8.00 103 Source: E306248-2 4.76 0.0250 5.00 ND 9.84 0.0250 5.00 ND 95.3 4.64 0.0250 5.00 ND 95.3 5.00 ND</td> <td>ND 0.0250 Spike Source Rec Limits mg/kg mg/kg mg/kg mg/kg % % ND 0.0250 nna % % % ND 0.0250 nnb % % % 4.90 0.0250 5.00 97.9 70-130 4.91 0.0250 5.00 98.2 70-130 4.83 0.0250 5.00 98.2 70-130 4.84 0.0250 5.00 98.2 70-130 4.84 0.0250 5.00 98.2 70-130 8.21 8.00 103 70</td> <td>Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source mg/kg Rec Mg/kg Re</td> <td>Broject Number: 01058-0007 Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting Limit Spike Result Source mg/kg Rec % Rec % Rec % Rep % RPD % RPD % RPD % ND 0.0250 mg/kg mg/kg 105 70-130 Prepared: 07/05/23 07/05/23 ND 0.0250 ND 0.0250 Prepared: 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23</td>	Project Name: Toro 22-3H Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 802 Result Reporting Spike Source Result mg/kg mg/kg mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 8.00 4.90 0.0250 5.00 A175 0.0250 5.00 4.90 0.0250 5.00 4.91 0.0250 5.00 4.92 8.00 Source 4.93 0.0250 5.00 8.21 8.00 ND 4.76 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND 4.476 0.0250 5.00 ND	Project Name: Toro 22-3H Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source Result Rec ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 5.00 97.9 4.75 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 4.89 0.0250 5.00 98.2 8.21 8.00 103 Source: E306248-2 4.76 0.0250 5.00 ND 9.84 0.0250 5.00 ND 95.3 4.64 0.0250 5.00 ND 95.3 5.00 ND	ND 0.0250 Spike Source Rec Limits mg/kg mg/kg mg/kg mg/kg % % ND 0.0250 nna % % % ND 0.0250 nnb % % % 4.90 0.0250 5.00 97.9 70-130 4.91 0.0250 5.00 98.2 70-130 4.83 0.0250 5.00 98.2 70-130 4.84 0.0250 5.00 98.2 70-130 4.84 0.0250 5.00 98.2 70-130 8.21 8.00 103 70	Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting mg/kg Spike mg/kg Source mg/kg Rec Mg/kg Re	Broject Number: 01058-0007 Project Number: 01058-0007 Project Manager: Anna Byers Volatile Organics by EPA 8021B Result Reporting Limit Spike Result Source mg/kg Rec % Rec % Rec % Rep % RPD % RPD % RPD % ND 0.0250 mg/kg mg/kg 105 70-130 Prepared: 07/05/23 07/05/23 ND 0.0250 ND 0.0250 Prepared: 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23 07/05/23



QC Summary Data

		$\mathbf{x} \mathbf{v} \mathbf{v}$		i j Duu					
WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		oro 22-3H 058-0007					Reported:
Carlsbad NM, 88220		Project Manager	: A	nna Byers					7/10/2023 3:03:33PM
	Noi	nhalogenated (Organics	by EPA 80	15D - GI	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327003-BLK1)							Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.6	70-130			
LCS (2327003-BS2)							Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			
Matrix Spike (2327003-MS2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			
Matrix Spike Dup (2327003-MSD2)				Source:	E306248-2	23	Prepared: 0	7/05/23 A	analyzed: 07/05/23
Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	2.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



QC Summary Data

		$\mathbf{v} \mathbf{v} \mathbf{v}$		in y Data					
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number:	01	oro 22-3H 058-0007 nna Byers					Reported: 7/10/2023 3:03:33PM
Carisbad NM, 88220		Project Manager:	A	nna Byers					//10/2023 3:03:33PM
	Nonha	alogenated Org	anics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2327033-BLK1)							Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.0		50.0		91.9	50-200			
LCS (2327033-BS1)							Prepared: 0	7/06/23 A	analyzed: 07/10/23
Diesel Range Organics (C10-C28)	239	25.0	250		95.6	38-132			
Surrogate: n-Nonane	45.4		50.0		90.8	50-200			
Matrix Spike (2327033-MS1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	366	25.0	250	93.6	109	38-132			
Surrogate: n-Nonane	41.0		50.0		81.9	50-200			
Matrix Spike Dup (2327033-MSD1)				Source:	E306236-	04	Prepared: 0	7/06/23 A	analyzed: 07/07/23
Diesel Range Organics (C10-C28)	383	25.0	250	93.6	116	38-132	4.62	20	
Surrogate: n-Nonane	42.0		50.0		84.1	50-200			



QC Summary Data

		$\mathbf{x} \in \mathbf{S}$	~~~~~		~				
WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	oro 22-3H 1058-0007 nna Byers					Reported: 7/10/2023 3:03:33PM
		Anions	by EPA 3	300.0/90564	۸				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2327028-BLK1)							Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride LCS (2327028-BS1)	ND	20.0					Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2327028-MS1)				Source:	E306247-)1	Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120			
Matrix Spike Dup (2327028-MSD1)				Source:	E306247-0	01	Prepared: 07	7/06/23	Analyzed: 07/07/23
Chloride	277	20.0	250	28.9	99.3	80-120	0.00794	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.



_		D chinicions and	
ſ	WPX Energy - Carlsbad	Project Name: Toro 22	-3H
I	5315 Buena Vista Dr	Project Number: 01058-0	0007 Reported:
l	Carlsbad NM, 88220	Project Manager: Anna B	yers 07/10/23 15:03

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.



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Page	1	(

39

Client: WPX Energy Permian LLC.						Bill To				La		e On					TA			Page rogram SDWA RCRA		
	Toro 22-3H					Attention: Jim Raley		Lab	WO#			Job I			1D	2D	3D	Standard	CWA	SDWA		
	lanager: Anna				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Address: 5315 Buena Vista D			507	60				000				5 day TAT				
			City, State, Zip: Carlsbad, NM	, 88220					Analy	sis an	d Metł	bod					RCRA					
			55			Phone: 575-885-7502			о Б										State			
•	575) 200-6754 von-team@e		com			mail: jim.raley@dvn.com VO: EE.151032.01.ABD		Depth(ft.) Depth(ft.) 8015 BTEX by 8021		NOR	0/ORC									NMI CO	UT AZ	
	by: Edyte Ko				A.0. (20) - 10	ncident ID: nOY1727952679		_	N N N	21	<u>5</u> 60	8	000		Σ		¥					
Time			No. of			<u>Incluent ID. 11011727552075</u>	Lab	Depth(ft.)	<u>ß</u>	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		y		Dementer	<u>II</u>		
Sampled	Date Sampled	Matrix	Containers	Sample II	J		Number	Dep	TPH 6 8015	BTE	٥ ۷	Met	ਤੂ		BGL		C C C C C		Remarks	; 		
9:10	6/30/2023	S	1			PH03		21'							X							
				1		· ·							-			┢			<u> </u>			
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	al Instruction		authonticity	of this compl		that tampering with or intentionally m	sishelling the complete	cation	· · ·			Sample	s reguli	ing therm	al preser	vation r	nust be re	ceived on ice the da	v they are san	noled or		
	of collection is cor			-		Sampled by:			", 				•	-	an avg te	emp abo	ove 0 but	ess than 6 °C on sub	sequent days			
elinquishe d <i>yte Konan</i>	d by: (Signature)		Date 06/3	0/2023	Time 14:20	Received by: (Signature) Michelle R GONZ	ales 6-30-2	23	Time 14	120		Rece	ived	on ice				y				
Relinguished by: (Signature) Date Time			Time 1615	Received by Signature	En 7/5/2	3	Time	15	•	T1			T2			Ť3						
			Time	Received by: (Signature)	Date		Time			AVG	Tem	-0 <i>-</i> 0	4									
ample Matr	rix: S - Soil, Sd - Sol	id, Sg - Sluds	je, A - Aqueo	ous, O - Othe	r	<u> </u>	Container	Typ	e: g - g	lass.					nber e	lass,	v - VO/	<u></u>	<u>، ار منطق میں ا</u>	<u>ای شمید و مراکله و م</u>		
		30 days at	fter results	are reporte		r arrangements are made. Hazaro	ious samples will be r	eturn	ed to c	lient	or dis	posed	of at						sis of the a	bove		

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	WPX Energy - Carlsbad Da	te Received:	07/05/23	08:15	Work Order ID:	E307004
Phone:	(575) 200-6754 Da	te Logged In:	07/05/23	09:16	Logged In By:	Caitlin Mars
Email:		ie Date:	07/11/23	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
l. Does	the sample ID match the COC?		Yes			
	the number of samples per sampling site location match	the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was tl	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Commen	ts/Resolution
Sample	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	<u>Cooler</u>					
7. Was a	sample cooler received?		Yes			
8. If yes,	, was cooler received in good condition?		Yes			
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are rec		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample tem	nperature: 4°	С			
Sample	Container	· _				
	aqueous VOC samples present?		No			
15. Are '	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	e appropriate volume/weight or number of sample containers	collected?	Yes			
Field La	abel					
20. Were	e field sample labels filled out with the minimum information	ation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name? Preservation		Yes			
	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ls?	No			
	ase Sample Matrix		110			
	s the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed	19	NA			
-		* •	INA			
	tract Laboratory		3.7			
	samples required to get sent to a subcontract laboratory?	1.0	No	A 1 1 1 1 1 1		
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract Lab: NA		

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



envirotech Inc.

APPENDIX G

NMOCD Correspondence

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



Anna Byers

From: Sent: To: Subject: Raley, Jim <Jim.Raley@dvn.com> Wednesday, May 17, 2023 4:17 PM Anna Byers FW: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

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



From: Raley, Jim <Jim.Raley@dvn.com>
Date: Wednesday, May 17, 2023 at 1:38 PM
To: Joseph Hernandez <joseph@etechenv.com>
Subject: FW: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

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



From: Erick Herrera <eherrera@ensolum.com>
Date: Wednesday, December 28, 2022 at 3:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>, 'CFO_Spill, BLM_NM' <blm_nm_cfo_spill@blm.gov>
Cc: Raley, Jim <Jim.Raley@dvn.com>, Devon Team <Devon-Team@ensolum.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (1/3 -1/6)

Good Afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between January 3 – January 6, 2023:

<u>Site Name: Toro 22-3H</u> API: 30-025-35253 Incident Number: nOY1727952679

Thank you,



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Erick Herrera

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Tuesday, June 27, 2023 11:53 AM
То:	Erick Herrera
Cc:	Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] WPX Site Sampling Activity Update (6/29-6/30)

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Erick Herrera <erick@etechenv.com>
Sent: Monday, June 26, 2023 3:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>
Subject: [EXTERNAL] WPX Site Sampling Activity Update (6/29-6/30)

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

Good afternoon,

WPX also anticipates conducting confirmation soil sampling activities at the following site between June 29 – June 30, 2023.

Site Name: Toro 22-3 API: 30-025-35253 Incident Number: nOY1727952679

Thank you,

Erick Herrera Staff Geologist

.

e Environmental & Safety Solutions, Inc.

Work: (432) 305-6416 Cell: (281) 777-4152

Joseph Hernandez

From:	Joseph Hernandez
Sent:	Tuesday, June 27, 2023 10:12 AM
То:	Raley, Jim
Cc:	Anna Byers
Subject:	FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 219749

Joseph S. Hernandez Senior Managing Geologist



Work: (432) 305-6413 Cell: (281) 702-2329

From: Joseph Hernandez
Sent: Monday, June 26, 2023 5:36 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Anna Byers <anna@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 219749

Nelson,

We will proceed with your recommended approach with advancement to same total depth to confirm chloride concentrations. We will include that data in the revised report.

Thanks

Sent from my iPhone

On Jun 26, 2023, at 4:53 PM, Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>> wrote:

Hey Joe,

Thanks for the notification. Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Talked with my supervisor last week about the email write up you suggested and he directed me not to do so.

Please proceed with whatever approach you feel can adequately define the lateral and vertical extent of the impacts.

If you have any questions or concerns, please contact me via email or telephone #.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u> <u>http://www.emnrd.state.nm.us/OCD/</u> <Outlook-kagggro0.png>

From: Joseph Hernandez <joseph@etechenv.com>
Sent: Monday, June 26, 2023 3:09 PM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Anna Byers <<u>anna@etechenv.com</u>>
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application
ID: 219749

Hi Nelson,

We were going to perform the sampling as you requested this Thursday or Friday. Did you send the email with conditions/summary we discussed?

Thanks,

Joseph S. Hernandez Senior Managing Geologist <image001.png>

Work: (432) 305-6413 Cell: (281) 702-2329

From: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Sent: Wednesday, June 21, 2023 11:40 AM
To: Joseph Hernandez <<u>joseph@etechenv.com</u>>
Cc: Anna Byers <<u>anna@etechenv.com</u>>
Subject: Re: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application
ID: 219749

Joseph,

We can discuss tomorrow. Hrs. available between 8-10 am & 12:00-2:30 pm.

Let me know what time. Thanks.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | <u>nelson.velez@emnrd.nm.gov</u> <u>http://www.emnrd.state.nm.us/OCD/</u> <image002.png>

From: Joseph Hernandez <joseph@etechenv.com>
Sent: Wednesday, June 21, 2023 10:31 AM
To: Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>
Cc: Anna Byers <<u>anna@etechenv.com</u>>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application
ID: 219749

Nelson,

I'm assisting Jim Raley with this project - do you have time tomorrow to discuss this denial?

Thanks,

Joseph S. Hernandez Senior Managing Geologist <image001.png>

Work: (432) 305-6413 Cell: (281) 702-2329

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us>

Sent: Tuesday, June 20, 2023 2:12 PM

To: Raley, Jim <<u>Jim.Raley@dvn.com</u>>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 219749

To whom it may concern (c/o James Raley for WPX Energy Permian, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1727952679, for the following reasons:

for the following reasons:

 1. Site assessment has not been fully delineated horizontally or vertically. 2. Site characterization data incomplete. Please provide supporting documentation for those items missing from the list on page 3 of Form C-141 in next submittal or final closure report. 3. Once bullet #1 has been achieved, operator is required to re-submit its revised remediation plan or final closure report. 4. Operator has 90 days (September 18, 2023) to fully delineate, re-submit its remediation plan, or submit final closure report. Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 219749.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Nelson Velez Environmental Specialist - Advanced 505-469-6146

Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

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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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	244562
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	7/31/2023

Action 244562