Name of Company: RKI Exploration / WPX Energy

Township

19S

Address: 5315 Buena Vista Dr.

Section

22

Facility Name: Toro 22-3

Surface Owner: Private

Unit Letter

Κ

State of New Mexico **Energy Minerals and Natural Resources**

> **Oil Conservation Division** 1220 South St. Francis Dr.

Final Report

pOY1727952902

Form C-141 Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Initial Report

Santa Fe, NM 87505

Release Notification and Corrective Action

OPERATOR

Contact: Karolina Blaney

Facility Type: Well Pad

Telephone No. 970 589 0743

| Mineral Owner: Private | | | | API No | . 30- 025-35253 | | |
|--|---------------|---------|------------|-------------------|-------------------|----------|--------------------|
| LOCATION OF RELEASE | | | | | | | |
| Range | Feet from the | North/S | South Line | Feet from the | East/W | est Line | County |
| 35E | 2130 |] | FSL | 1650 | F | WL | Lee |
| Latitude: 32.64457955_ Longitude -103.44839217 NAD83 | | | | | | | |
| NATURE OF RELEASE | | | | | | | |
| | | | Volume of | Release: 120 bbls | 5 | Volume F | Recovered 110 bbls |
| Date and Hour of Occurrence | | | e | Date and | Hour of Discovery | | |

| Type of Release: Produced Water | Volume of Release: 120 bbls Volume Recovered 110 bbls |
|--|---|
| Source of Release: | Date and Hour of Occurrence Date and Hour of Discovery |
| flowline | 9/21/17 9/21/2017 at 8:30 am |
| Was Immediate Notice Given? | If YES, To Whom? |
| \boxtimes Yes \square No \square Not Required | NMOCD Olivia Yu |
| By Whom? Karolina Blaney | Date and Hour 9/21/17 at 12:23 pm |
| Was a Watercourse Reached? | If YES, Volume Impacting the Watercourse. |
| 🗌 Yes 🖾 No | |
| If a Watercourse was Impacted, Describe Fully.* | |
| | RECEIVED |
| N/A | |
| | By Olivia Yu at 10:28 am, Oct 06, 2017 |
| Describe Cause of Problem and Remedial Action Taken.* | |
| The cause of this spill is equipment failures corrected tank. Approximately, | 120 bbls of produced water were spilled inside dirt SPCC containment. 110 bbls |
| were recovered with a vac truck. | 120 bols of produced water were spined inside dift of the containing it. 110 bols |
| were recovered while a vac track. | |
| Describe Area Affected and Cleanup Action Taken.* | |
| - | |
| The impacted area was immediately mapped with a Trimble to delineate th | he horizontal extent of the impacts. The compromised tank was removed and |
| | nd was sampled for confirmation. The samples are being analyzed for TPH, |
| BTEX and Chlorides. The laboratory results will be submitted to OCD for | review. |
| | |
| | |
| | e best of my knowledge and understand that pursuant to NMOCD rules and |
| | otifications and perform corrective actions for releases which may endanger |
| | NMOCD marked as "Final Report" does not relieve the operator of liability |
| | contamination that pose a threat to ground water, surface water, human health |
| or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations. | bes not relieve the operator of responsibility for compliance with any other |
| rederar, state, or local laws and/or regulations. | OIL CONGEDUATION DIVISION |
| Karolina Blaney | OIL CONSERVATION DIVISION |
| Signature: | |
| 0 | |
| | Approved by Environmental Specialist: |
| Printed Name: Karolina Blaney | |
| | 10/6/2017 |
| Title: Environmental Specialist | Approval Date: Expiration Date: |
| | |
| E-mail Address: Karolina.blaney@wpxenergy.com | Conditions of Approval: Attached |
| Date: 10/5/17 Dhore: 070 590 07/2 | see attached directive |
| Date: 10/5/17 Phone: 970 589 0743 | |
| Attach Additional Sheets If Necessary | RP-4838 nOY1727952679 |
| | $\Gamma \Gamma^{-4}030$ 10 12 332013 $\Gamma O V A 7070 \Gamma 0000$ |

Released to Imaging: 1/19/2024 9:23:32 AM

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 | Longitude -103.44839 (NAD 83 in decimal degrees to 5 decimal places) | |
|-------------------------|--------------|--|--|
| Site Name: Toro 22-3 | | Site Type: Well Pad | |
| Date Release Discovered | 1: 9/21/2017 | API# (if applicable): 30-025-35253 | |

| Unit Letter Section Tow | | Township | Range | County |
|-------------------------|----------|----------|-------|--------|
| | K 22 19S | | 35E | Lea |

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

| Materia | l(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 $1 - 1 = 10000$ (12) | Yes INO |
| | produced water >10,000 mg/l? | |
| 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.

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

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| Oil Conserva | tion | Div | isi | ion |
|--------------|------|-----|-----|-----|
|--------------|------|-----|-----|-----|

| Incident ID | nOY1727952679 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major release as defined by | If YES, for what reason(s) does the responsible party consider this a major release? | | | |
|--|--|--|--|--|
| 19.15.29.7(A) NMAC? | Unauthorized release of a volume, excluding gases, of 25 barrels or more. | | | |
| 🛛 Yes 🗌 No | | | | |
| | | | | |
| | | | | |
| If YES, was immediate notice 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.

| Printed Name: Jim Raley | Title: Environmental Professional |
|--------------------------|-----------------------------------|
| Signature: | Date: |
| email: Jim.Raley@dvn.com | Telephone:575-689-7597 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Received by OCD: 9/21/2023 10:31:59 AM Form C-141 State of New Mexico Form C-141

Oil Conservation Division

| | Page 4 of 20 |
|----------------|---------------|
| Incident ID | nOY1727952679 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u> <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

Page 3

- 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
- \boxtimes 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: 9/21/2 | 2023 10:31:59 AM State of New Mexico | | | Page 5 of 20 | | | | |
|---|--------------------------------------|---|---|--|--|--|--|--|
| | | | | Incident ID | nOY1727952679 | | | |
| Page 4 | Oil Conservation Division | | | District RP | | | | |
| | | | | Facility ID | | | | |
| | | | | Application ID | | | | |
| regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Jim.Raley@ | | tifications an OCD does no eat to ground f responsibili _ Title: Date: | d perform co ot relieve the lwater, surfa- ty for compl <u>Environr</u> | prrective actions for rele operator of liability sh ce water, human health iance with any other fe mental Professional | eases which may endanger ould their operations have or the environment. In | | | |
| OCD Only Received by: <u>Shelly W</u> | Zells | D | ate: <u>7/27/2</u> | 2023 | | | | |

Received by OCD: 9/21/2023 10:31:59 AM Form C-141 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. Printed Name: Jim Raley Title: _____ Environmental Professional fin Roly 7/26/2023 Date: Signature: 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

Page 6

Oil Conservation Division

| Incident ID | nOY1727952679 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

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Closure

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

| <u>Closure Report Attachment Checklist</u>: Each of the following in | tems must be included in the closure report. |
|--|---|
| A scaled site and sampling diagram as described in 19.15.29.1 | 1 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate ODC | C District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of | nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in |
| | |
| OCD Only | |
| Received by: | Date: |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: Nelson Velez Printed Name: Nelson Velez | Date: 01/19/2024 |
| Printed Name: Nelson Velez | Environmental Specialist – Adv |



CLOSURE REQUEST REPORT

Toro 22-3 Lea County, New Mexico Incident Number nOY1727952679

Prepared For: WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

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

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) to detail corrective actions and soil sampling activities in accordance with an approved Remediation Work Plan (RWP), for an inadvertent release of produced water at the Toro 22-3 (Site). Based on completed remedial actions and laboratory analytical results from confirmation soil sampling activities, WPX is requesting No Further Action (NFA) at the Site.

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 Area of Concern (AOC) on **Figure 2** in **Appendix A**. The timeline of events associated with the release are as follows:

September 28 through 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. Since initial response efforts, plugging and abandonment activities at the Site were completed in 2022.

January 4 and June 30, 2023

Delineation activities were conducted to attempt vertical delineation within the AOC. Once successful vertical delineation was achieved, an updated RWP was prepared to address action items requested by NMOCD for residual soil impacts exceeding the Site Closure Criteria based on laboratory analytical results from delineation activities and proposed:

- The top four feet of impacted soil to be excavated from the AOC;
- A 20-mil impermeable liner to be installed on the excavation floor;
- The excavation to extend laterally until confirmation soil sample results from the sidewalls of the excavation meet Closure Criteria and will provide horizontal delineation of the release; and
- No floor confirmation soil samples to be collected as delineation soil samples within the AOC defined residual chloride impacts left in place beneath the 20-mil impermeable liner.

The RWP was approved by the NMOCD on July 31, 2023. Previous remediation summaries can be referenced in the original reports submitted to the NMOCD.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized 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:

Closure Request Report Incident Number nOY1727952679 Toro 22-3

- 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.

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 milligram per kilogram (mg/kg) |
| TPH (Total Petroleum Hydrocarbon) | EPA 8015 M/D | 100 mg/kg |
| Benzene | EPA 8021B | 10 mg/kg |
| Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) | EPA 8021B | 50 mg/kg |

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

The results of the approved Site characterization are reported on the Final Form C-141. Referenced well records are provided as **Appendix B**. Receptor details and sources used for the Site characterization are included in **Figure 1** in **Appendix A**.

EXCAVATION SOIL SAMPLING ACTIVITIES

From August 22 through August 29, 2023, Etech oversaw the excavation of identified impacts via mechanical equipment based on detailed corrective actions in the approved RWP, laboratory analytical results associated with delineation soil sampling activities and visual observation. As proposed, the excavation was vertically advanced to a depth of 4 feet below ground surface (bgs) and laterally driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips.

Following the removal of soil, Etech collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation sidewalls. As per the approved RWP, confirmation excavation soil floor samples were not collected since the vertical extent of the AOC had been previously delineated. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of COCs. The location of confirmation excavation soil samples is shown in **Figure 2** in **Appendix A**.

Closure Request Report Incident Number nOY1727952679 Toro 22-3 On September 19, 2023, following the receipt of the laboratory analytical results for final confirmation excavation soil samples, a 20-mil impermeable liner was installed on the excavation floor at approximately 4 feet bgs as proposed in the approved RWP to act as a physical barrier and mitigate residual chloride impacts into the subsurface. Immediately following the liner installation, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible, and impacted soil was removed from the Site and transported to a licensed and approved New Mexico landfill under WPX approved manifests. The approximate excavation and liner extent are shown in **Figure 2** in **Appendix A**. Photographic documentation of excavation, liner installation and restoration activities are included in **Appendix C**.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation indicated all analyzed COCs were below the Site Closure Criteria. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

CLOSURE REQUEST

Based on laboratory analytical results for confirmation excavation soil samples, WPX believes that residual soil impacts associated with the inadvertent release have been delineated, excavated and removed from the top 4 feet bgs at the Site. Concentrations of COCs for all final excavation confirmation soil samples were below the Site Closure Criteria. WPX believes the completed remedial actions have mitigated impacts at the Site and the requirements set forth in NMAC 19.15.29.13 regulations to be protective of human health, the environment and groundwater. As such, NFA appears warranted at this time and this CRR associated with Incident Number nOY1727952679 should be respectfully considered for Closure by the NMOCD.

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. **Appendix F** provides correspondence email notification receipts associated with the subject release. Previous remediation activities and soil sample analytical results for the subject release can be referenced in the original RWP in **Appendix G**.

Sincerely, Etech Environmental and Safety Solutions, Inc.

Inna Byers

Anna Byers Senior Geologist

Josep Ad

Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, WPX New Mexico Oil Conservation Division

Closure Request Report Incident Number nOY1727952679 Toro 22-3

Appendices:

| Appendix A: | Figure 1: Site Map |
|-------------|--|
| | Figure 2: Excavation Soil Sample Locations |
| Appendix B: | Referenced Well Records |
| Appendix C: | Photographic Log |
| Appendix D: | Tables |
| Appendix E: | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix F: | NMOCD Notifications |
| Appendix G: | Approved Remediation Work Plan |

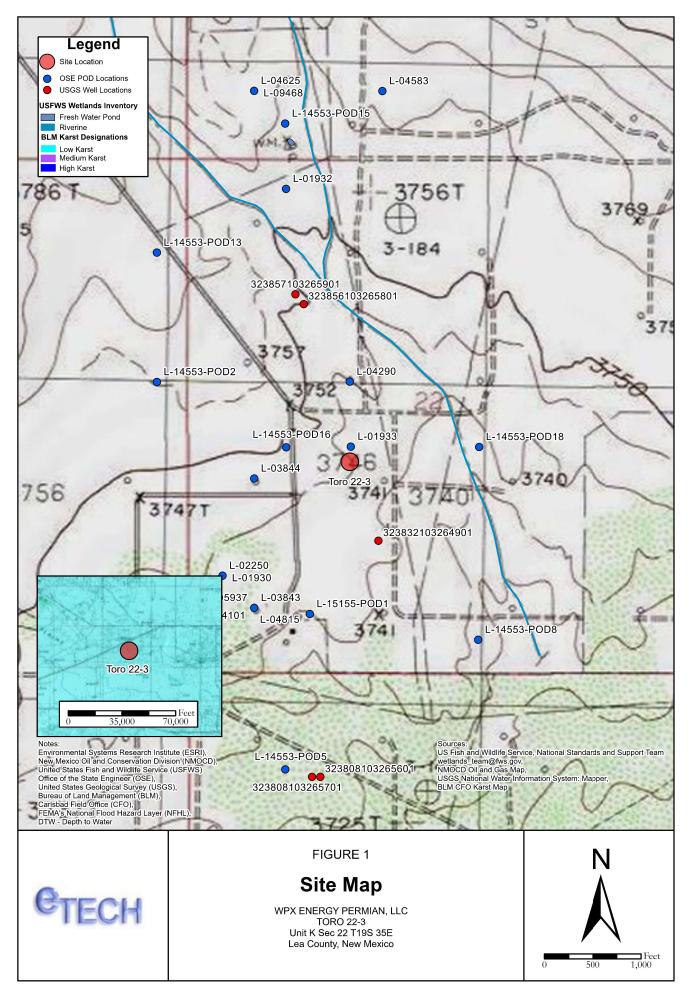
.

APPENDIX A

Figures

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







APPENDIX B

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

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

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 aguifer.

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 | | | А |
| 1963-03-19 | | D | 62611 | | 3725.50 | NAVD88 | 1 | Z | | | А |
| 1963-03-19 | | D | 72019 | 16.50 | | | 1 | Z | | | А |
| 1966-03-18 | | D | 62610 | | 3723.43 | NGVD29 | 1 | Z | | | А |
| 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 | | | А |
| 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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| 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. |

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

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

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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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|---------------------------|---|------------|---|---|-------------------------------------|---------|-------------------------|--|---|--|----------|--|
| NO | OSE POD NO. (WELL NO.) WELL TAG ID NO. L- 15155 POD 1 20EC2 | | | | | | | ose file no(s). L- 15155 POD 1 | | | | |
| OCATI | WELL OWNER NAME(S) George L. Klein L&K Ranch LLC | | | | | | | PHONE (OPTIONAL) 214 738 2046 | | | | |
| GENERAL AND WELL LOCATION | WELL OWN PO Box 1 | | NG ADDRESS | | | | | CITY STATE ZIP Hobbs NM 88241-1503 | | | | |
| AND | WELL | | D | EGREES 32 | | | | * ACCURAC | A DEOLUBED. ONE TEN | | | |
| ERAL | LOCATIO (FROM GI | PS) | ATITUDE ONGITUDE | -103 | 26 | 59 | N W | | Y REQUIRED: ONE TEN QUIRED: WGS 84 | In of A Second | | |
| 1. GEN | DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE NESESWSW Sec 22 T 19S R 35E | | | | | | | | | | | |
| | LICENSE NO |). | NAME OF LICENSE | D DRILLER | | | | | NAME OF WELL DR | ILLING COMPANY | | |
| | WD- | 1626 | | R | oy Taylor | | | | Ro | y Taylor Drilling | | |
| | DRILLING S 11/19/ | | DRILLING ENDED 11/19/2021 | DEPTH OF COMPL | ETED WELL (FT) 69' | BC | | LE DEPTH (FT) 69' | DEPTH WATER FIR | ST ENCOUNTERED (FT) 35' | | |
| Z | COMPLETED WELL IS: ARTESIAN DRY HOLE | | | | SHALLOW | UNCONFI | NED) | | STATIC WATER LEVEL IN COMPLETED WELL (FT) 35' | | | |
| VIIO | DRILLING FLUID: AIR MUL | | | | ADDITIVES - SPECIFY: | | | | | | | |
| ORMA | DRILLING M | IETHOD: | ✓ ROTARY | HAMMER | CABLE TOO | DL [| OTHE | R - SPECIFY: | | | | |
| CASING INFORMATION | DEPTH (feet bgl) BORE HOLE | | | | CASING MATERIAL AND/OR | | | SING | CASING | CASING WALL | SLOT | |
| | FROM TO | | DIAM | GRADE (include each casing string, and | | | CONNECTION TYPE | | INSIDE DIAM. | THICKNESS | SIZE | |
| CASI | | | (inches) | note secti | ections of screen) (add | | (add coupling 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) | BORE HOLE | LIST A | ANNULAR SEAI | L MATER | JAL A | ND | AMOUNT | METHO | DOF | |
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| LAM | 20' | 29' | 12 1/4" | | Grav | el | | | 5.3 | Pourd | ed | |
| ANNULAR MATERIAL | 29' | 69' | 12 1/4" | | 8/16 Silic | a Sand | | | 23.53 | Pourd | ed | |
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| LOCATION | 195-32 -a | 2 3.2 | 3.4 | WELL TAG ID NO. 🊄 | ac. |
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| | - | | | - | |
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PAGE 1 OF 2

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| | DEPTH (1 | eet bgl) | THICKNESS | COLOR AND TYPE OF MATERIAL ENCOUNTERED |) - | WATER | ESTIMATED YIELD FOR |
|------------------------------|------------|---------------|----------------|---|------------|------------------------|---------------------------------|
| | FROM | то | (feet) | INCLUDE WATER-BEARING CAVITIES OR FRACTURE (attach supplemental sheets to fully describe all units | | BEARING? (YES / NO) | 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 | | ✓Y N | |
| - | 50' | 69' | 19' | Red Clay | | Y 🖌 N | |
| MEI | | | | | | Y N | |
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| 4. HIDROGEOLOGIC LOG OF WELL | | | | | | Y N | |
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| 3 | PRINT NAM | E(S) OF D | RILL RIG SUPER | /ISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL | CONSTRU | CTION OTHER TH | IAN LICENSEI |
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| | RECORD OF | THE ABO | OVE DESCRIBED | WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRE WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE C | D, HAS BEI | EN INSTALLED AN | ND THAT THIS |
| 0.0101 | Ro | y Ta | ylon | Roy Taylor | | 12/5/2021 | |
| | | / SIGNA) | URE OF DRILLER | / PRINT SIGNEE NAME | | DATE | |
| OD | OSE INTERN | IAL USE | | |) WELL RE | CORD & LOG (Ver | rsion 04/30/201 |
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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

| | pplication No. L-4290 Book LC-17 Date Received October 2, 1959 | |
|--------------|--|--|
| 1. | Name of applicant C. W. TRAINER | |
| | Postoffice address. P. O. Box 2222 ; City or Town Hobbs | |
| | County of Lea, State of New Mexico | |
| 2. | Source of water supply Shallow ground water basin (state whether artesian or shallow ground water basin) | |
| | located in Lea County Underground Basin | |
| | (name of underground stream, valley, artesian basin, etc.) | |
| 3. | | |
| | of section 22, Township. 19 South, Range 35 East, | N.M.F |
| | 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 | o be u |
| | Pump jack with industrial engine | |
| | | |
| 5. | Quantity of water to be appropriated and beneficially used three (3) | |
| | forOil well drilling | purpo |
| 6. | Acreage to be irrigated None | ac |
| | located and described as follows (describe only lands to be irrigated): | |
| | | |
| | Acres Subdivision Sec. Twp. Range Irrigated Owner | |
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| | (Note: location of well and acreage to be irrigated must be shown on plat on reverse side.) | 0 |
| 7. | Time required to commence construction as soon as possible | |
| 4. | Time required to complete the works <u>l year</u> | |
| | | |
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| • | Additional statements or explanations (including data on any other water rights appurtenant to above l Signal State No. 1 | |
| 8. | | |
| 8. | This connected anning to the heine tiled to | |
| 8. | This corrected Application is being filed to show the location of the well in the proper place | |
| 8. | This corrected Application is being filed to show the location of the well in the proper place | • |
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| 8. | show the location of the well in the proper place | |
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| - | show the location of the well in the proper place | h, dep |
| - | <u>show the location of the well in the proper place</u> <u>I, C. W. TRAINER</u> , being first duly sworn upon my oat ad say that I have carefully read the foregoing statement and each and all of the items contained therein, be same are true to the best of my knowledge and bellef. | h, dep , and t |
| - | <u>show the location of the well in the proper place</u> <u>I, C. W. TRAINER</u> , being first duly sworn upon my oat ad say that I have carefully read the foregoing statement and each and all of the items contained therein, be same are true to the best of my knowledge and bellef. | h, dep , and t |
| an th | <u>show the location of the well in the proper place</u> <u>I</u> , <u>C. W. TRAINER</u> , being first duly sworn upon my oat d say that I have carefully read the foregoing statement and each and all of the items contained therein, same are true to the best of my knowledge and belief. | h, dep , and t applic |
| an th | <u>show the location of the well in the proper place</u> <u>I</u> , <u>C. W. TRAINER</u> , being first duly sworn upon my oat 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. <u>hescribed aird sworn to before me this 17th</u> day of January , A.D., | h, dep , and ti applica , 19-6 |
| an th | <u>show the location of the well in the proper place</u> <u>I</u> <u>C. W. TRAINER</u> , being first duly sworn upon my oat d say that I have carefully read the foregoing statement and each and all of the items contained therein, same are true to the best of my knowledge and belief. <u>hereing</u> , <u>A. D.</u> <u>Sin Simila</u> , <u>January</u> , A. D., <u>Sin Simila</u> , <u>January</u> , A. D., <u>Sin Simila</u> , <u>January</u> , A. D., | h, dep , and the application of |
| an th | <u>show the location of the well in the proper place</u> <u>I</u> <u>C. W. TRAINER</u> , being first duly sworn upon my oat d say that I have carefully read the foregoing statement and each and all of the items contained therein, same are true to the best of my knowledge and belief. <u>hereine</u> <u>day of</u> <u>January</u> , A.D., <u>January</u> , A.D., <u>January</u> , A.D., <u>January</u> , A.D., <u>January</u> , A.D., | h, dep , and th applica , 19_6 |

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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 TH

APPLICATION FOR PERMIT

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8. \$5

To Appropriate the Underground Waters of the State of New Mexico

| | LEA COUNTY UNDERGROUND BASTN |
|-----------|--|
| Ap | Dication No. L-4290 Book LC-17 Date Received October 2, 1959 |
| 1. | Name of applicant C. W. Trainer |
| | Postoffice address_Box 2222 ; City or Town Hobbs, |
| | County of Lea |
| 2. | Source of water supply <u>shallow ground water basin</u> (state whether artesian or shallow ground water basin) |
| | located in Lea County Underground Basin |
| | (name of underground stream, valley, criesian basin, etc.) |
| 3. | The well is to be located in the SE 1/4, SW 1/4, NE 1/4. |
| | of section 22 Township. 19 South Range 35 East N.M.P.M. |
| | on land owned by State of New Mexico |
| t. | Description of well: driller Ed Burke ;WD No. 111 ; depth to be drilled 50 feet; |
| | diamenter (cutside) of casing |
| | 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 purposes. |
| 3. | Acreage to be irrigated none acres |
| | located and described as follows (describe only lands to be irrigated): |
| | Acros |
| | Subdivision Sec. Twp. Range Irrigated Owner |
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| | (Note: location of well and acreage to be irrigated must be shown on plat on reverse side.) |
| . ' | Time required to commence construction as soon as possible ; |
| | Time required to complete the works |
| | Time required to fully apply water to beneficial use. not required |
| | Additional statements or explanations (including data on any other water rights appurtement to above lands) |
| | Signal State No. 1 |
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| | |
| | |
| | I. <u>C. W. Trainer</u> , being first duly sworn upon my oath, depose |
| | say that I have carefully read the foregoing statement and each and all of the items contained therein, and that |
| he | same are true to the best of my knowledge and belief. |
| | - C. W. Trainer, applicant |
| | by: Edward (2. / Suche |
| ubs | cribed and sworn to before me this 22 day of September AD. 1959 |
| | Elin Enera Horra |
| ly (| Commission expires April 13, 1963 Notery Public. |



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| | APPROVAL | OF | THE | STATE | ENGINEER |
|--|----------|----|-----|-------|----------|
|--|----------|----|-----|-------|----------|

| Number of this permit | L-4290 | Date received correct | ed |
|--------------------------|--|----------------------------|------------------------------------|
| Recorded in Book | | Publication of notice | ordered |
| Page | 4000 | Name of paper | · · |
| Application received— | 0-tober 9 1050 | Affidavit of publicatio | n filed |
| Date returned for corr | ection | Date of approval | October 5, 1959 |
| | and the second | | acre feet of water |
| subject to all prior val | d and existing rights to the use | e of the waters of said un | derground source and provided that |
| | | | ining to the drilling of wells |
| ogallala. | (2) Appropriation not | to exceed 3 acre f | eet per acre for |
| domestic and | d oil well drilling o | perations. (3) Wel | 1 to be plugged upon |
| completion | of oil well drilling o | operations and plug | ging 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

0-well site

State Engineer

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.

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

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acres

1961

WR-15 IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS TOPM AM 8:25 **APPLICATION FOR PERMIT** To Appropriate the Underground Waters of the State of New Mexico LEA COUNTY UNDERGROUND WATER BASIN L-4290 LC-17 January 9. 1961 Book Application No.__ Date Received. 90 \mathcal{O} C. W. TRAINER 1. Name of applicant P. O. Box 2222 ; City or Town . Hobbs Postoffice address____ New Mexico Lea County of._ ., State of _ Shallow (state whether artesian 2. Source of water supply 1. A 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_____ WD No. 111; depth to be drilled..... 4. Description of well: driller Ed Burk 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 for _____ Water Floed of Pearl Queen Field - T-19S, R-35E purposes None 6. Acreage to be irrigated... located and described as follows (describe only lands to be irrigated):

| Subdivision | Sec. Twp. | Acres Range Irrigated | Owner |
|----------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| Ξź | State of New Mexico | | |
| | Office of State Engineer | · · · · · · · · · · · · · · · · · · · | |
| | Whereas, the rights | s under this filing | · · · · · · · · · · · · · · · · · · · |
| | have lapsed and notice hav | ing been given as | |
| | per the Rules and Regulati | | |
| | Engineer, this permit No. L | | 0 0 |
| | is hereby cancelled this 5 | Hyday of July | <u>– 1</u> |
| | A. D. 1966 | | |
| | S. E. REYNOLDS, State Eng | ineer | |
| | | | |
| | By Chance | 5. the | |
| - William | Chief, Water Rights Div | rision | |
| (Note: loca | tion of well and acreage to be irrig | ated must be shown on plat on reve | rse side.) |
| Time required to commen | ce construction | l year | |
| Time required to complete | | 2 years | |
| Time required to fully app | | 2 years | Fi e |

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. 1 alue applicant N 101

| Second States and States | | · | | | |
|---|----------------------|---------|----------|----------------|---|
| Subscribed and sworn to | o before me this 6th | day_of | January | A. D., 1961 | - |
| | | | · · · · | ^ | |
| dy Commission expires. | January 23, 1963 | _ Ungen | ia J. I. | Notary Public. | |
| - 18 an an an a' suite an a | | | | Ω · | |



Page 27 of 208

| Number of this permit Recorded in Book | | | | - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 | Publicati | on of not | ce orde | aredJt | up. 19, 1961 | |
|---|---|-----------|---------------------------------------|---|--|---|---|-------------------------------|------------------------|-------------------|
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| Age | Janue | | | | | | | | | - - |
| Date returned for corr | | | | | | | | | | _ |
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| | | | | | | | | · | irilling of wells | |
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| Depth of well | 60 | | · · · · · · · · · · · · · · · · · · · | | 1. | 1997 - S. 1877 | e ogs | 11010 | sbove the red | |
| bed or other a | <u>inderly</u> | ing fo | ormatic | on. | <u> </u> | () () () () () () () () () () | <u>, , , , , , , , , , , , , , , , , , , </u> | | | • • • • • • • |
| Works shall be con | | | | | | | | | | - |
| Water shall be app | plied to b | eneficial | use and | proofs file | ed on or | before 🔜 | ay 31 | ., 1966 | | - |
| | | Sec | 1. S | | | | | | he underground water | 8 |
| of the State of New I | Mexico ar | nd hereb | y approv | e the san | ne subject | to the for | egoing | provision | s and conditions. | |
| Witness my hand | and seal | this | 21st | | day of | May | <u> </u> | | , A. D., 19_62 | • |
| witness my nanu | and bom | | | | aug or- | | | | | |
| witness my nauu | | | 1. A 1. S 1. | | | Reyno1 | ds | | | |
| | , 15 | | | | <u>S. E.</u> | | | | State Engineer | · . · . |
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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.

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: | SUBDIVISIONSECTIONTOWNSHIPRANGESW2SE2NW22219355. |
| 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 No. 1-4290 was approved May 21, 1962 for 100 acre feet to be used for the secondary recovery of oil. Well No. L-4290 was an existing well. 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. |
| | 사실 것에서 가지 않는 것을 많은 것이 있다. 이렇게 가지 않는 것이 있는 것이 있는 것이 있는 것이다. 같이 많은 것이 있는 것이 있는 것이 같이 있는 것이 같이 있는 것이 있는 것이 있는 것이 있는 것이 같이 있는 것이 있다. 것이 있는 |

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 K-4290. |
| | 2. 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. |
| | 5. There are no other permits for the secondary recov- ery of oil that include the W2NE4 & E2NW4 of Sec- tion 22, Township 19 South, Range 35 East. |

RECOMMENDATIONS:

Approval is recommended.

Fred H. Hennighausen Supervisor, District II

ECB*jd encl.

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.
- 4. 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

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

October 17, 1961

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 lin 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 フ A \leq -500 as st Date: Вy File No. Location No.

WR-36

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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 byon |
| (Approved)(Rejected) |
| Oil stringfeet ofinch. Grade |
| Inspected by on |
| (Approved)(Rejected) |
| CEMENTING PROGRAM: Cemented bySupervised by |
| Type of shoe usedFloat collar used |
| Bottom three joints weldedCement: around shoesks |
| around casing sks. Additives |
| |
| Size of holeSize of casingsks. of cement required |
| Size of hole Size of casing sks. of cement required Plug pumped down (a.m.)(p.m.) |
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STATE ENGINEER O. ICE MEMO DATE 10-3-61 TO: 1 Jar () For Your Information) Note & Return (() For Your Files) Circulate ((X) For Your Handling () REMARKS: This file intiates sko 2 -4290 have been pla There 10-5-60. jo_ A he night to use the this wel ail well 1961x during e a

. 8

C. W. TRAINER

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

April 27, 1961

State Engineer Office P. O. Box 810 Roswell, 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. | No commitments | to date, but I have 8 | 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 | |
| | Ho | bbs | , New Mexico | |

Dear Sir:

| The following notice shall | be published at applicant's | expense once a week 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)

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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.

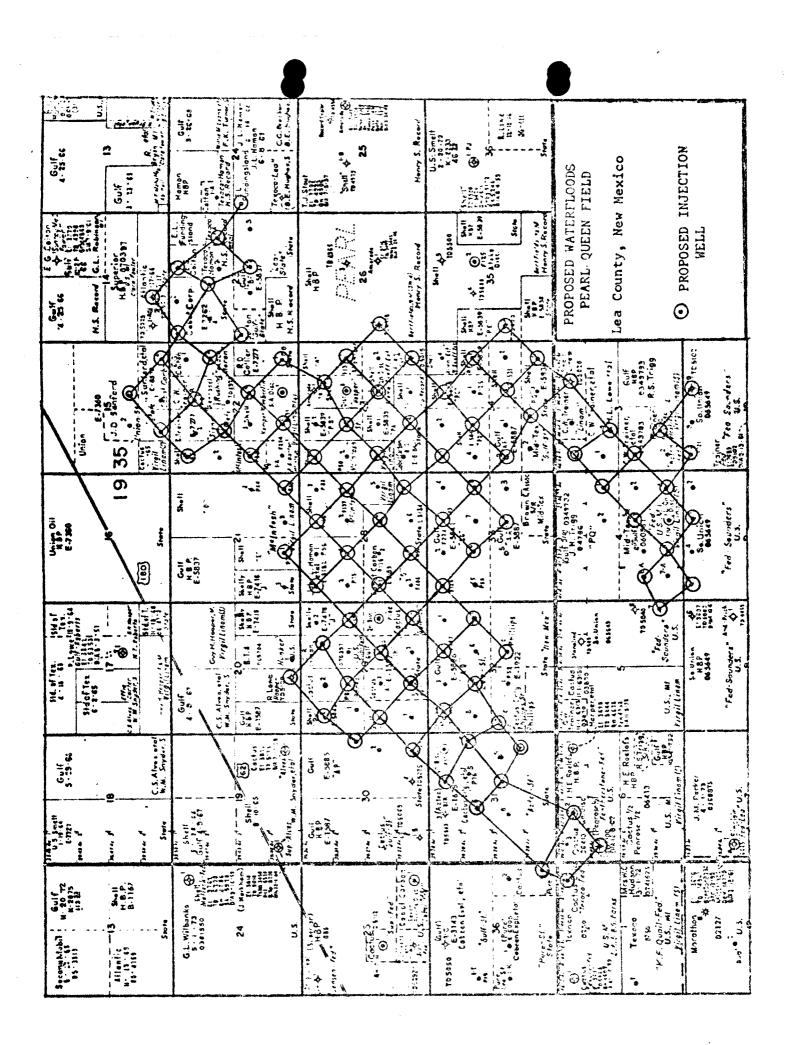
| | UBLISHER: Immediately after la he State Engineer, P. O. Box _8 | st publication, publisher is | | |
|--------------|---|------------------------------|-----------------------------------|---------------------|
| | | NOTICE | | |
| | | State Engineer's Off | fice | |
| Number of A | pplication | Roswe | 11, N. M., January 1 | 9, 19 61 |
| Notice is he | reby given that on the9th | day of | January | , 19 61 , in |
| accordance v | with Chapter 131 of the Session L | .aws of 1931, | C. W. Trainer | |
| of | Hobbs | County of | Lea | |
| State of | New Mexico | mad | e application to the State Engine | er of New Mexico |

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 _____, 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 ÛĜ

WELL RECORD

IGNAL

age <u>39</u> of 208

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 | | PRIN | ICIPAL WATER-BEARING STRATA |
|---------|-------|---------|--------------|--|
| No. | Depth | in Feet | Thickness in | Description of Water-Bearing Formation |
| 110. | From | To | - Feet | |
| 1 | 18 | 32 | 14 | Gravel |
| 2 | | | | |
| 3 | | | | |
| 4 | | 1 | | |
| 5 | | | | |

| Section 3 RECORD OF CASING | | | | | | | | | |
|----------------------------|--------|---------|-------|--------|------|-----------|---------------------------------------|----|----------|
| Dia | Pounds | Threads | Depth | | Feet | Tune Shee | Perforations | | |
| in. | ft. | in | Top | Bottom | reel | Type Shoe | From | То | <u> </u> |
| 6 | 17 | 8 | 0 | 40 | 40 | open | 10 | 40 | |
| | | | | | | | | | |
| | ••••• | | | | | ···· | · · · · · · · · · · · · · · · · · · · | | |

| Section 4 | | | RECORD | | AND | CEMENT | NG | · · · · · |
|------------|----------|-------------------------|------------|------------------------|----------------|-----------------------------------|------------|--------------------|
| - | in Feet | Diameter Hole in in. | ter Tons | No. Sacks of Cement | | | | |
| From | То | Hole III III. | Clay | | | <u></u> | | |
| | | | | | | | | • · · · · · |
| | | | | | | | | |
| | | | | | | | | |
| Section 5 | | | | PLUGGING I | RECO | RD | | |
| Name of | Plugging | Contractor | | | ··· ··· | | Ľ | icense No |
| Street and | l Numbe | r | | City | r | د د د. مراسبه میرد. | St | icense No ate |
| | | | | | | | | oughage |
| Plugging | method u | sed | | | | Date | Plugged | 19 |
| Plugging a | approved | by: | | | | Cement | Plugs were | placed as follows: |
| | | | | | No. | Depth | of Plug | |
| | | | Basin Supe | rvisor | 140. | From | То | No. of Sacks Used |
| | FOR USE | OF STATE ENG | INEER ON | LY | [] | | | |
| "D | | | | | | | | |
| Date R | eceived | AURIE ENG | L | | | | | |
| 87:8 | | - 130 6561 | | | | | | |
| | 0- | . TJO 8281 | | | · | | | |

Use a W.D.

Location No. 19.35.22.

File No.

| a | ~ |
|---------|------|
| Sontion | 6 |
| Section | - 12 |
| | - |

LOG OF WELL

| Depth | in Feet | Thickness | Color | There of Meterial Presentaned |
|-------------|---------------------------------------|-----------------|--|---|
| From | То | in Feet | Color | Type of Material Encountered |
| 0 | 2 | 2 | | Surface soil |
| 2 | 15 | 13 | | Galiche |
| 15 | 18 | 3 | | Sand Hock |
| 18 | 32 | 14 | | Gravel (water) |
| 32 | 45 | 13 | ana talah kanan di katala di katalah kapata dikangka kanan di kanan di kanan di kanan di kata di kanan di kata | Red Clay |
| | | | | |
| | | | | |
| | | | | L S Elev 3 //4/8 Depth to K Trc Elev of K Trc |
| | · · · · | ···· ·· ··· ··· | ······································ | LSElev |
| <u></u> | ····- | | | Elev of KTrc=/// |
| | | | | |
| | <u> </u> | | | / |
| | | | | Loc. No. <u>19.25.22. 14344</u> Hydro. Survey Field Check X |
| *** ** **** | | | | the first Charles V |
| | | | | Hyaro, Survey Field Cileck // |
| | | | | |
| | | | | 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

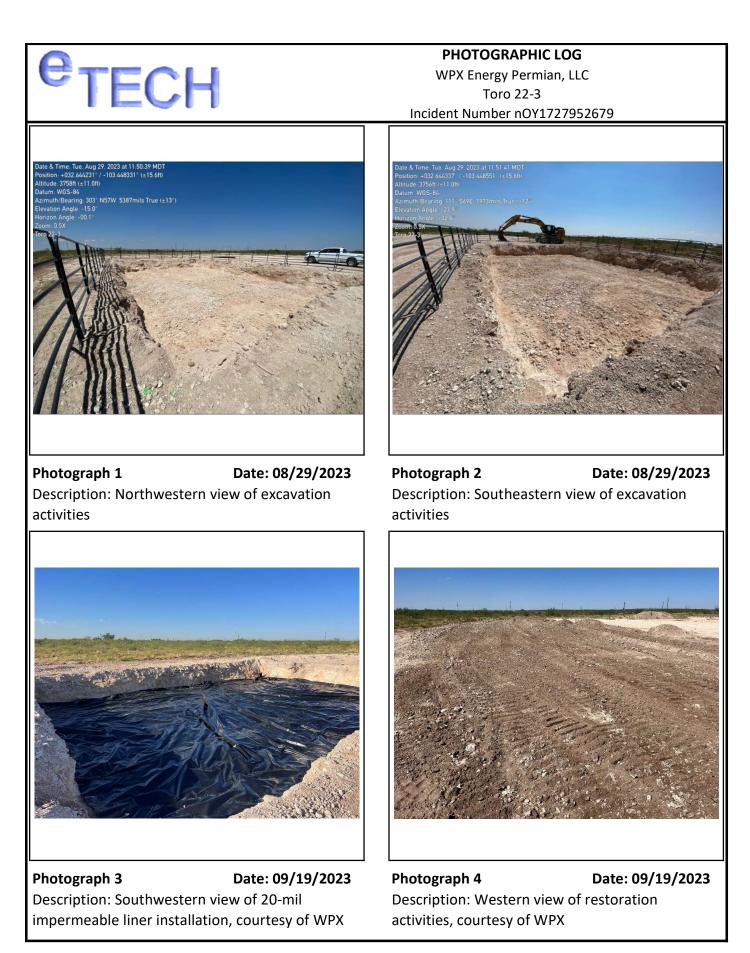
Released to Imaging: 1/19/2024 23:32 AM

APPENDIX C

Photographic Log

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





APPENDIX D

Tables

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



•

| Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Toro 22-3 Lea County, New Mexico | | | | | | | | | |
|---|------------|--------------------|-----------------------|-----------------------|----------------------|--------------------|----------------------|---------------------|------|
| Sample I.D. Sample Sample Depth Date (feet bgs) | | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) | |
| NMOCD Table I Closur Release (NMAC 19.15.2 | | s Impacted by a | 10 | 50 | NE | NE | NE | 100 | 600 |
| | | | E | cavation Soil Samples | - Incident Number nO | Y1727952679 | | | |
| SW01 | 08/29/2023 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 213 |
| SW02 | 08/29/2023 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 212 |
| SW03 | 08/29/2023 | 0-4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <50.0 | 61.3 |
| SW04 | 08/29/2023 | 0-4 | <0.0500 | <0.100 | <40.0 | <25.0 | <50.0 | <50.0 | 74.4 |

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics DRO: Diesel Range Organics DRO: Diesel Range Organics TPH: Total Petroleum Hydrocarbon NMACD: New Mexico Oil Conservation Division NMACD: New Mexico Administrative Code Text in "grey" represents excavated soil samples Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

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







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 22-3

Work Order: E309001

Job Number: 01058-0007

Received: 9/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/7/23

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: 9/7/23

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: Toro 22-3 Workorder: E309001 Date Received: 9/1/2023 5:45:00AM

Anna Byers,



Page 47 of 208

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2023 5:45:00AM, under the Project Name: Toro 22-3.

The analytical test results summarized in this report with the Project Name: Toro 22-3 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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Sample Summary

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| | | Sample Sum | mai y | | | |
|-----------------------|---------------|------------------|------------|----------|------------------|--|
| WPX Energy - Carlsbad | | Project Name: | Toro 22-3 | | Reported: | |
| 5315 Buena Vista Dr | | Project Number: | 01058-0007 | | | |
| Carlsbad NM, 88220 | | Project Manager: | Anna Byers | | 09/07/23 15:42 | |
| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container | |
| SW01 | E309001-01A | Soil | 08/29/23 | 09/01/23 | Glass Jar, 2 oz. | |
| SW02 | E309001-02A | Soil | 08/29/23 | 09/01/23 | Glass Jar, 2 oz. | |
| SW03 | E309001-03A | Soil | 08/29/23 | 09/01/23 | Glass Jar, 2 oz. | |
| SW04 | E309001-04A | Soil | 08/29/23 | 09/01/23 | Glass Jar, 2 oz. | |



| | D | ampie D | ala | | | |
|--|---------------|------------------------|----------|----------|----------|--------------------|
| WPX Energy - Carlsbad | Project Name: | : Toro | 22-3 | | | |
| 5315 Buena Vista Dr | Project Numb | oer: 010 | 58-0007 | | | Reported: |
| Carlsbad NM, 88220 | Project Manag | ger: Ann | a Byers | | | 9/7/2023 3:42:42PM |
| | | SW01 | | | | |
| | | E309001-01 | | | | |
| | | Reporting | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | g/kg mg/kg Analyst: IY | | st: IY | | Batch: 2336003 |
| Benzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | |
| Toluene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | |
| p-Xylene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | |
| o,m-Xylene | ND | 0.0500 | 1 | 09/05/23 | 09/06/23 | |
| Fotal Xylenes | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 93.9 % | 70-130 | 09/05/23 | 09/06/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analy | st: IY | | Batch: 2336003 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/05/23 | 09/06/23 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 86.1 % | 70-130 | 09/05/23 | 09/06/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analy | st: JL | | Batch: 2336013 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/23 | 09/06/23 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/23 | 09/06/23 | |
| Surrogate: n-Nonane | | 91.4 % | 50-200 | 09/05/23 | 09/06/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analy | st: BA | | Batch: 2336046 |
| Chloride | 213 | 20.0 | 1 | 09/06/23 | 09/07/23 | |
| | | | | | | |

Sample Data



o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID

Diesel Range Organics (C10-C28)

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Nonhalogenated Organics by EPA 8015D - GRO

Nonhalogenated Organics by EPA 8015D - DRO/ORO

| Sample Data | | | | | | | | | |
|--|------------------|---------|----------|----------|--------------------|----------------|--|--|--|
| WPX Energy - Carlsbad | Project Name: | Toro 22 | 2-3 | | | | | | |
| 5315 Buena Vista Dr | Project Number: | 01058- | 0007 | | Reported: | | | | |
| Carlsbad NM, 88220 | Project Manager: | Anna E | Byers | | 9/7/2023 3:42:42PM | | | | |
| | S | W02 | | | | | | | |
| | E30 | 9001-02 | | | | | | | |
| Reporting | | | | | | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes | | | |
| Volatile Organics by EPA 8021B mg/kg mg/kg Analyst: IY | | | | | | Batch: 2336003 | | | |
| Benzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | | | | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | | | | |
| Toluene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | | | | |

0.0250

0.0500

0.0250

mg/kg

20.0

mg/kg

25.0

50.0

mg/kg

20.0

95.1 %

84.6 %

89.9 %

ND

ND

ND

mg/kg

ND

mg/kg

ND

ND

mg/kg

212

1

1

1

1

1

1

1

Analyst: IY

Analyst: JL

Analyst: BA

70-130

70-130

50-200

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/07/23

Batch: 2336003

Batch: 2336013

Batch: 2336046

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID

Diesel Range Organics (C10-C28)

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Nonhalogenated Organics by EPA 8015D - GRO

Nonhalogenated Organics by EPA 8015D - DRO/ORO

| Sample Data | | | | | | | | | |
|--------------------------------|------------------|-----------------------------|----------|----------------|-----------|--------------------|--|--|--|
| WPX Energy - Carlsbad | Project Name: | Toro 22 | 2-3 | | | | | | |
| 5315 Buena Vista Dr | Project Number: | oject Number: 01058-0007 | | | Reported: | | | | |
| Carlsbad NM, 88220 | Project Manager: | Project Manager: Anna Byers | | | | 9/7/2023 3:42:42PM | | | |
| | S | W03 | | | | | | | |
| | E30 | 9001-03 | | | | | | | |
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes | | | |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg Analyst: IY | | Batch: 2336003 | | | | | |
| Benzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | | | | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/05/23 | 09/06/23 | | | | |

0.0250

0.0250

0.0500

0.0250

mg/kg

20.0

mg/kg

25.0

50.0

mg/kg

20.0

93.8 %

86.8 %

88.4 %

ND

ND

ND

ND

mg/kg

ND

mg/kg

ND

ND

mg/kg

61.3

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/06/23

1 1

1

1

1

1

1

1

Analyst: IY

Analyst: JL

Analyst: BA

70-130

70-130

50-200

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/07/23

Batch: 2336003

Batch: 2336013

Batch: 2336046

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID

Diesel Range Organics (C10-C28)

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Nonhalogenated Organics by EPA 8015D - GRO

Nonhalogenated Organics by EPA 8015D - DRO/ORO

| Sample Data | | | | | | | | | |
|--------------------------------|------------------|-----------|------------|----------|--------------------|-----------|--|--|--|
| WPX Energy - Carlsbad | Project Name: | Toro 22 | 2-3 | | | | | | |
| 5315 Buena Vista Dr | Project Number: | 01058- | 01058-0007 | | | Reported: | | | |
| Carlsbad NM, 88220 | Project Manager: | Anna E | Byers | | 9/7/2023 3:42:42PM | | | | |
| | S | W04 | | | | | | | |
| E309001-04 | | | | | | | | | |
| | | Reporting | | | | | | | |
| Analyte | Result | Limit | Dilution | Prepared | Analyzed | Notes | | | |
| Volatile Organics by EPA 8021B | Batch: 2336003 | | | | | | | | |
| Benzene | ND | 0.0500 | 2 | 09/05/23 | 09/06/23 | | | | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/05/23 | 09/06/23 | | | | |
| Toluene | ND | 0.0500 | 2 | 09/05/23 | 09/06/23 | | | | |

0.0500

0.100

0.0500

mg/kg

40.0

mg/kg

25.0

50.0

mg/kg

20.0

94.1 %

86.1 %

91.0 %

ND

ND

ND

mg/kg

ND

mg/kg

ND

ND

mg/kg

74.4

2

2

2

2

1

1

1

Analyst: IY

Analyst: JL

Analyst: BA

70-130

70-130

50-200

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/05/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/06/23

09/07/23

Batch: 2336003

Batch: 2336013

Batch: 2336046

QC Summary Data

| 70-130 | | | Reported: 9/7/2023 3:42:42PN Analyst: IY Notes Analyzed: 09/06/23 |
|---|--|---|--|
| Limits % P 70-130 P 70-130 70-130 70-130 | % Prepared: 0 | Limit % 09/05/23 A | Analyst: IY Notes |
| Limits % P 70-130 P 70-130 70-130 70-130 | % Prepared: 0 | Limit % 09/05/23 A | Analyst: IY Notes |
| Limits % P 70-130 P 70-130 70-130 70-130 | % Prepared: 0 | Limit % 09/05/23 A | Notes |
| Limits % P 70-130 P 70-130 70-130 70-130 | % Prepared: 0 | Limit % 09/05/23 A | Analyzed: 09/06/23 |
| % P 70-130 P 70-130 70-130 70-130 | % Prepared: 0 | % 09/05/23 A | Analyzed: 09/06/23 |
| 70-130 P 70-130 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| 70-130 P 70-130 70-130 70-130 | | | |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| P 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| 70-130 70-130 70-130 | Prepared: () | 09/05/23 A | Analyzed: 09/06/23 |
| 70-130 70-130 | | | |
| 70-130 | | | |
| | | | |
| 70-130 | | | |
| , 0-150 | | | |
| 70-130 | | | |
| 70-130 | | | |
| 70-130 | | | |
| Р | Prepared: 0 | 09/05/23 A | Analyzed: 09/06/23 |
| 54-133 | | | |
| 61-133 | | | |
| 61-130 | | | |
| 63-131 | | | |
| 63-131 | | | |
| 63-131 | | | |
| 70-130 | | | |
| Р | Prepared: 0 | 09/05/23 A | Analyzed: 09/06/23 |
| 54-133 | 3.52 | 20 | |
| 61-133 | 3.52 | 20 | |
| | 3.67 | 20 | |
| 63-131 | 3.60 | 20 | |
| | 3.48 | 20 | |
| 63-131 | 3.52 | 20 | |
| | 61-130 63-131 63-131 63-131 70-130 54-133 61-133 61-130 63-131 63-131 63-131 | 61-130 63-131 63-131 70-130 Prepared: 1 54-133 54-133 54-133 54-133 5.2 61-133 5.2 61-130 3.67 63-131 3.60 63-131 3.48 | 61-130 63-131 63-131 70-130 Prepared: 09/05/23 A 54-133 3.52 20 61-133 3.52 20 61-130 3.67 20 63-131 3.60 20 63-131 3.48 20 63-131 3.52 20 |



QC Summary Data

| | γu | , Summary D | ala | | | |
|--|--|---|---|---|--|--|
| PX Energy - Carlsbad 315 Buena Vista Dr arlsbad NM, 88220 | Project Name Project Numb Project Mana | ber: 01058-0007 | | | Reported: 9/7/2023 3:42:42PM | |
| - | Nonhalogenate | ed Organics by EPA | 8015D - GRO | | Analyst: IY | |
| | Reporting Result Limit mg/kg mg/kg | g Spike Sourc Level Resu mg/kg mg/kg | alt Rec Limits | RPE s RPD Limi % % | iit | |
| | | | | | | |
| 2336003-BLK1) | | | | Prepared: 09/05/23 | Analyzed: 09/06/23 | |
| Range Organics (C6-C10) | ND 20.0 | | | | | |
| : 1-Chloro-4-fluorobenzene-FID | 6.86 | 8.00 | 85.7 70-130 | | | |
| 336003-BS2) | | | | Prepared: 09/05/23 | Analyzed: 09/06/23 | |
| Range Organics (C6-C10) | 42.8 20.0 | 50.0 | 85.6 70-130 | | | |
| : 1-Chloro-4-fluorobenzene-FID | 6.92 | 8.00 | 86.5 70-130 | | | |
| Spike (2336003-MS2) | | Sou | irce: E309001-02 | Prepared: 09/05/23 Analyzed: 09/06/2 | | |
| Range Organics (C6-C10) | 42.2 20.0 | 50.0 ND | 84.4 70-130 | | | |
| : 1-Chloro-4-fluorobenzene-FID | 6.89 | 8.00 | 86.1 70-130 | | | |
| Spike Dup (2336003-MSD2) | | Sou | rce: E309001-02 | Prepared: 09/05/23 | Analyzed: 09/06/23 | |
| Range Organics (C6-C10) | 40.5 20.0 | 50.0 ND | 81.0 70-130 | 4.01 20 | | |
| : 1-Chloro-4-fluorobenzene-FID | 6.91 | 8.00 | 86.4 70-130 | | | |
| Range Organics (C6-C10) : 1-Chloro-4-fluorobenzene-FID Spike (2336003-MS2) Range Organics (C6-C10) : 1-Chloro-4-fluorobenzene-FID Spike Dup (2336003-MSD2) Range Organics (C6-C10) | 6.92 42.2 20.0 6.89 40.5 20.0 | 8.00 50.0 ND 8.00 50.0 ND 50.0 ND | 86.5 70-130 arce: E309001-02 - arce: E309001-02 - arce: E309001-02 - arce: E309001-02 - b 81.0 70-130 | Prepared: 09/05/23 Prepared: 09/05/23 4.01 20 | Analyzed: 09 | |

QC Summary Data

| Result mg/kg Limit mg/kg Level mg/kg Result mg/kg Result mg/kg <th></th> <th></th> <th>QC S</th> <th>umma</th> <th>iry Data</th> <th>a</th> <th></th> <th></th> <th></th> <th></th> | | | QC S | umma | iry Data | a | | | | |
|--|---------------------------------|------|-----------------|----------|--------------------|-----------|--------------------------------------|-------------|--------------------|--------------------|
| Analyte Result mg/kg Reporting Limit mg/kg Spike Limit mg/kg Source Result mg/kg Rec Result mg/kg Rec Limit % Rec Limit % RPD Limit % RPD Limit Blank (236013-BLK1) Notes Blank (236013-BLK1) ND 25.0 </th <th>5315 Buena Vista Dr</th> <th></th> <th>Project Number:</th> <th>01</th> <th>058-0007</th> <th></th> <th></th> <th></th> <th></th> <th>-</th> | 5315 Buena Vista Dr | | Project Number: | 01 | 058-0007 | | | | | - |
| Analyte Limits Level Result Result< | | Nonh | alogenated Org | anics by | EPA 8015I |) - DRO | /ORO | | | Analyst: JL |
| Diesel Range Organics (C10-C28) ND 25.0 Oil Range Organics (C28-C36) ND 50.0 Surrogate: n-Nonane 44.4 50.0 88.8 50-200 LCS (2336013-BS1) Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 244 25.0 250 97.4 38-132 Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 90/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Prepared: 09/05/23 Analyzed: 09/05/23 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 | Analyte | | Limit | Level | Result | | Limits | | Limit | Notes |
| Distribution (and body organics (C10-C26)) ND 50.0 Surrogate: n-Nonane 44.4 50.0 88.8 50-200 LCS (2336013-BS1) Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 244 25.0 250 97.4 38-132 Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 97.4 38-132 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 97.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Blank (2336013-BLK1) | | | | | | | Prepared: 0 | 9/05/23 A | Analyzed: 09/05/23 |
| Surrogate: n-Nonane 44.4 50.0 88.8 50-200 LCS (2336013-BS1) Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 244 25.0 250 97.4 38-132 Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 95.6 38-132 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.00/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | _ | | |
| LCS (2336013-BS1) Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 244 25.0 250 97.4 38-132 Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | | ND | 50.0 | | | | | | | |
| Diesel Range Organics (C10-C28) 244 25.0 250 97.4 38-132 Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Surrogate: n-Nonane | 44.4 | | 50.0 | | 88.8 | 50-200 | | | |
| Surrogate: n-Nonane 43.1 50.0 86.3 50-200 Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 Output | LCS (2336013-BS1) | | | | | | | Prepared: 0 | 9/05/23 A | Analyzed: 09/05/23 |
| Matrix Spike (2336013-MS1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Diesel Range Organics (C10-C28) | 244 | 25.0 | 250 | | 97.4 | 38-132 | | | |
| Diesel Range Organics (C10-C28) 239 25.0 250 ND 95.6 38-132 Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Surrogate: n-Nonane | 43.1 | | 50.0 | | 86.3 | 50-200 | | | |
| Surrogate: n-Nonane 44.0 50.0 87.9 50-200 Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Matrix Spike (2336013-MS1) | | | | Source: E309011-21 | | Prepared: 09/05/23 Analyzed: 09/05/2 | | Analyzed: 09/05/23 | |
| Matrix Spike Dup (2336013-MSD1) Source: E309011-21 Prepared: 09/05/23 Analyzed: 09/05/23 Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Diesel Range Organics (C10-C28) | 239 | 25.0 | 250 | ND | 95.6 | 38-132 | | | |
| Diesel Range Organics (C10-C28) 240 25.0 250 ND 96.0 38-132 0.389 20 | Surrogate: n-Nonane | 44.0 | | 50.0 | | 87.9 | 50-200 | | | |
| | Matrix Spike Dup (2336013-MSD1) | | | | Source: | E309011-2 | 21 | Prepared: 0 | 9/05/23 A | Analyzed: 09/05/23 |
| Surrogate: n-Nonane 41.1 50.0 82.2 50-200 | Diesel Range Organics (C10-C28) | 240 | 25.0 | 250 | ND | 96.0 | 38-132 | 0.389 | 20 | |
| | Surrogate: n-Nonane | 41.1 | | 50.0 | | 82.2 | 50-200 | | | |

QC Summary Data

| | | • | | ary Duc | | | | | |
|--|-----------------|--|-------------------------|---------------------------------------|-----------|--------------------|-------------|-------------------|--|
| WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220 | | Project Name: Project Number: Project Manager: | (| Foro 22-3 01058-0007 Anna Byers | | | | | Reported: 9/7/2023 3:42:42PM |
| | | Anions | by EPA | 300.0/9056A | ۱ | | | | 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 (2336046-BLK1) | | | | | | | Prepared: 0 | 9/06/23 | Analyzed: 09/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2336046-BS1) | | | | | | | Prepared: 0 | 9/06/23 | Analyzed: 09/07/23 |
| Chloride | 245 | 20.0 | 250 | | 98.1 | 90-110 | | | |
| Matrix Spike (2336046-MS1) | | | | Source: | E308250-2 | 21 | Prepared: 0 | 9/06/23 | Analyzed: 09/07/23 |
| Chloride | 247 | 20.0 | 250 | ND | 98.9 | 80-120 | | | |
| Matrix Spike Dup (2336046-MSD1) | | | | Source: | E308250-2 | 21 | Prepared: 0 | 9/06/23 | Analyzed: 09/07/23 |
| Chloride | 248 | 20.0 | 250 | ND | 99.4 | 80-120 | 0.523 | 20 | |

QC Summary Report Comment:

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



Definitions and Notes

| | Demmerons | | |
|-----------------------|------------------|------------|----------------|
| WPX Energy - Carlsbad | Project Name: | Toro 22-3 | |
| 5315 Buena Vista Dr | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 09/07/23 15:42 |
| Carlsbad NM, 88220 | Project Manager: | Anna Byers | 09/07/23 |

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.



| ient: W | PX Energy Pe | rmian LLC | 2. | | | Bill To | 14. | | Ten a | La | b Use | On | v | Sec. 19.0 | | TA | AT | | EPA P | rogram |
|-----------------------------|------------------------|---------------|-----------------------------|--|---------------|---|---------------------|------------|----------------------------|--------------|-------------|-------------------|----------------|-----------|-------------|------------|-----------|----------------------------------|------------------------------|--------------------------------------|
| Project: Toro 22-3 | | At | Attention: Jim Raley | | Lab | WO# | | | lob M | Number | | 1D 2D | 3D | Sta | ndard | CWA S | SDWA | | | |
| Project Manager: Anna Byers | | Ad | dress: 5315 Buena Vista Dr. | the second s | EC | 309 | 00 | Ø | OC | 58-00 | 500 | | | 5 da | ay TAT | | | | | |
| | 13000 W Cou | | | | | ty, State, Zip: Carlsbad, NM, | 88220 | | 2 | C | mA | nalys | sis and M | ethoc | | | | | | RCRA |
| | e, Zip_Odessa | | 55 | | 100000 | ione: 575-885-7502 | | | yd C | | | | | 1 | | | | | | |
| | 575) 200-6754 | | | | | nail: jim.raley@dvn.com | | 1 | /ORC | | | | | | | | | | State | |
| | evon-team@e | | com | | | BS: EE.151032.01.ABD | | | DRO, | 021 | 60 | 10 | 0.00 | | MN | ¥ | 1 | NM CO | UT AZ | TX |
| | d by: Edyte Ko | nan | | 1 | In | cident ID: nOY1727952679 | | (£.) | RO/ | oy 8(| y 82 | s 60: | de 3 | | 2 | | | | <u>s la</u> | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | _ | | Lab Number | Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | GDOC | | | Remarks | Page rogram SDWA RCRA TX |
| 11:30 | 8/29/2023 | S | 1 | | | SW01 | 1 | 0-4' | | | | | | | Х | | | | | |
| 11:40 | 8/29/2023 | S | 1 | | × | SW02 | 2 | 0-4' | | | | | | | Х | | | | | |
| 11:50 | 8/29/2023 | S | 1 | 3 | | SW03 | 3 | 0-4' | | | | | | | X | | | | | |
| 12:00 | 8/29/2023 | S | 1 | 1 | | SW04 | 4 | 0-4' | | | | | | | X | | | | | |
| | | | | | | type | | | | | | | | | | | | | | j. |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | al Instruction | | | | | | | | | | | | T | | | | | | | |
| ate or time | of collection is co | nsidered frau | id and may b | e grounds for | legal action. | at tampering with or intentionally misl Sampled by: | 100 | | | | | | | | avg temp ab | ove 0 but | less than | on ice the day 1 6 °C on subs | they are sam equent days. | pled or |
| | ed by: (Signature | #= | | 9/2023 | 17:30 | Received by: (Signature): | 4 8-29. | 23 | | 130 | | Rece | ived on i | ice: | V/ | se On N | ly | | | |
| M | ed by: (Signature | ings | | 31-23 | 1715 | Received by: (Signature) | | 1.23 | | œ | 2 | Г1 | | | T2 | | _ 1 | ГЗ | | |
| M | ed by: (Signature | 1092 | $P q^{\text{Date}}$ | 1.23 | 024 | Carth Ma | a 9/1/2: | 3 | Time 5 | :4: | | 1000 C 2000 C 200 | Temp °C | | 1_ | 19. m | | | | |
| | rix: S - Soil, Sd - So | | | | | | Containe | | | | | | | | | | | | | |
| ote: Sam | applicable only t | to those san | ner results | are reported | horatory with | arrangements are made. Hazarde this COC. The liability of the labor | ous samples will be | e retur | ned to | client | t or dis | pose | d of at the | client | expense. | The re | port fo | or the anal | ysis of the | above |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| | WPX Energy - Carlsbad Da | ate Received: | 09/01/23 05 | 5:45 | Work Order ID: | E309001 |
|---|---|-------------------------------|---|---------------------|----------------|---------------|
| Phone: | (575) 200-6754 Da | ate Logged In: | 09/01/23 07 | 7:55 | Logged In By: | Caitlin Mars |
| Email: | anna@etechenv.vom Du | ie Date: | 09/08/23 11 | 7:00 (4 day TAT) | | |
| <u>Chain o</u> t | f Custody (COC) | | | | | |
| 1. Does 1 | the sample ID match the COC? | | Yes | | | |
| 2. Does t | the number of samples per sampling site location match | the COC | Yes | | | |
| 3. Were a | samples dropped off by client or carrier? | | Yes | Carrier: Courier | | |
| 4. Was tł | he COC complete, i.e., signatures, dates/times, requested | analyses? | Yes | | | |
| 5. Were a | 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. | e field, | Yes | | Commen | ts/Resolution |
| <u>Sample '</u> | <u>Turn Around Time (TAT)</u> | | | | | |
| 6. Did th | e 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 th | he sample(s) received intact, i.e., not broken? | | Yes | | | |
| 10. Were | e custody/security seals present? | | No | | | |
| 11. If yes | s, were custody/security seals intact? | | NA | | | |
| 12. Was th | he sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are rec minutes of sampling | | Yes | | | |
| 13. If no | visible ice, record the temperature. Actual sample ten | nperature: 4° | С | | | |
| Sample [•] | Container | | | | | |
| | 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 | | | |
| 17. Was | | | 37 | | | |
| | non-VOC samples collected in the correct containers? | | Yes | | | |
| 18. Are r | appropriate volume/weight or number of sample containers? | collected? | Yes Yes | | | |
| 18. Are r | appropriate volume/weight or number of sample containers | collected? | | | | |
| 18. Are r 19. Is the <u>Field La</u> | appropriate volume/weight or number of sample containers | | | | | |
| 18. Are r 19. Is the Field La 20. Were | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum informa- Sample ID? | | | | | |
| 18. Are r 19. Is the Field La 20. Were S | appropriate volume/weight or number of sample containers <u>ubel</u> e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? | | Yes Yes Yes | | | |
| 18. Are r 19. Is the Field La 20. Were S I | appropriate volume/weight or number of sample containers <u>bel</u> e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? | | Yes | | | |
| 18. Are r 19. Is the Field La 20. Were S I C Sample J | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum informa Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> | ation: | Yes Yes Yes Yes | | | |
| 18. Are r 19. Is the Field La 20. Were S I C Sample 2 21. Does | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preservation | ation: | Yes Yes Yes Yes No | | | |
| 18. Are r 19. Is the Field La 20. Were S I C Sample 2 21. Does 22. Are s | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were prese sample(s) correctly preserved? | ation: erved? | Yes Yes Yes Yes No NA | | | |
| 18. Are r 19. Is the Field La 20. Were 20. Were Sample 1 21. Does 22. Are s 24. Is lab | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? Preservation as the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta | ation: erved? | Yes Yes Yes Yes No | | | |
| 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lab Multiph | appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? Preservation as the COC or field labels indicate the samples were prese sample(s) correctly preserved? o filteration required and/or requested for dissolved meta lase Sample Matrix | ation: rved? ls? | Yes Yes Yes No NA No | | | |
| 18. Are r 19. Is the Field La 20. Were 20. Were Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does | appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were prese sample(s) correctly preserved? to filteration required and/or requested for dissolved meta tase Sample Matrix is the sample have more than one phase, i.e., multiphase? | ation: rved? ls? | Yes Yes Yes No NA No | | | |
| 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were preserved is the COC or field labels indicate the samples were preserved? is filteration required and/or requested for dissolved metation tases Sample Matrix is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed | ation: rved? ls? | Yes Yes Yes No NA No | | | |
| 18. Are r 19. Is the Field La 20. Were S I C Sample 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes Subcont | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum informa- Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were prese sample(s) correctly preserved? the filteration required and/or requested for dissolved meta tase Sample Matrix is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed tract Laboratory | ation: vrved? ls? d? | Yes Yes Yes No NA No No | | | |
| 18. Are r 19. Is the Field La 20. Were 20. Were 21. Does 22. Are s 24. Is lab Multiph 26. Does 27. If yes Subcont 28. Are s | appropriate volume/weight or number of sample containers bel e field sample labels filled out with the minimum information Sample ID? Date/Time Collected? Collectors name? Preservation is the COC or field labels indicate the samples were preserved is the COC or field labels indicate the samples were preserved? is filteration required and/or requested for dissolved metation tases Sample Matrix is the sample have more than one phase, i.e., multiphase? s, does the COC specify which phase(s) is to be analyzed | ation: rved? ls? d? | Yes Yes Yes No NA No NA No | Subcontract Lab: NA | | |

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



envirotech Inc.

•

APPENDIX F

NMOCD Notifications

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



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

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

APPENDIX G

Approved Remediation Work Plan

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



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 decimal deg | Longitude | -103.44839 es) | |
|------------------------------------|------------------------|----------------------|-------------------|--|
| Site Name: Toro 22-3 | | Site Type: Well I | Pad | |
| Date Release Discovered: 9/21/2017 | | API# (if applicable) |): 30-025-35253 | |

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

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

| Materia | l(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 $1 - 1 = 10000$ (12) | Yes INO |
| | produced water >10,000 mg/l? | |
| 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.

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

Oil Conservation Division

| | Page 70 of 20 |
|----------------|---------------|
| 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. | | | |
| | | | | |
| 🗙 Yes 🗌 No | | | | |
| | | | | |
| | | | | |
| | | | | |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | | | | |
| | | | | |
| Immediate notice was giv | en 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

 \boxtimes The source of the release has been stopped.

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.

| Printed Name: Jim Raley | Title: Environmental Professional |
|--------------------------|-----------------------------------|
| Signature: | Date: |
| email: Jim.Raley@dvn.com | Telephone:575-689-7597 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Received by OCD: 9/21/2023 10:31:59 AM Form C-141 State of New Mexico

Oil Conservation Division

| | Page 71 of 208 | | | |
|----------------|----------------|--|--|--|
| Incident ID | nOY1727952679 | | | |
| District RP | | | | |
| Facility ID | | | | |
| Application ID | | | | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u> <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
- Field

Page 3

- 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
- 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: 9/21/2023 10:31:59 AM Form C-141 State of New Mexico | | - | Phgg 72 of 20 | | |
|--|---------------------------|---|--|--|--|
| | | | Incident ID | | nOY1727952679 |
| Page 4 Oil Conservatio | Oil Conservation Division | on Division | | District RP | |
| | | | | Facility ID | |
| | | | | Application ID | |
| regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:Jim.Raley@ | | fications and pe OCD does not re at to groundwa responsibility f | erform cor elieve the o ter, surfac for complia Environm | rective actions for rele operator of liability sh e water, human health ance with any other fe mental Professional | eases which may endanger ould their operations have or the environment. In |
| OCD Only Received by: <u>Shelly W</u> | ells | Date | : <u>7/27/20</u> | 023 | |

Received by OCD: 9/21/2023 10:31:59 AM Form C-141 State of New Mexico

Oil Conservation Division

| Incident ID | nOY1727952679 |
|----------------|---------------|
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

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



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 |
| | |

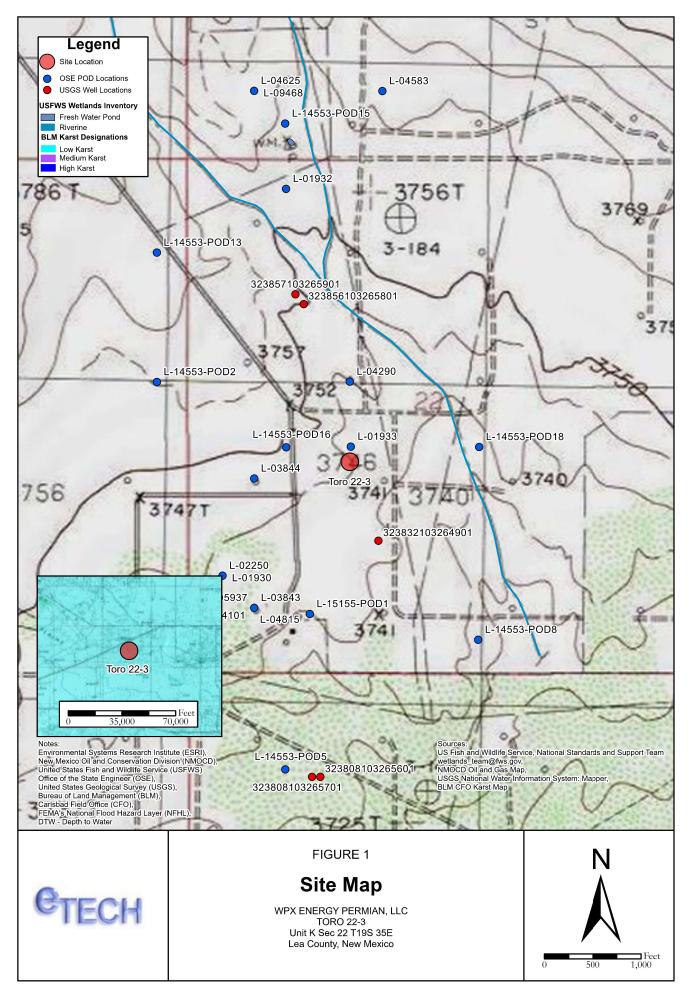
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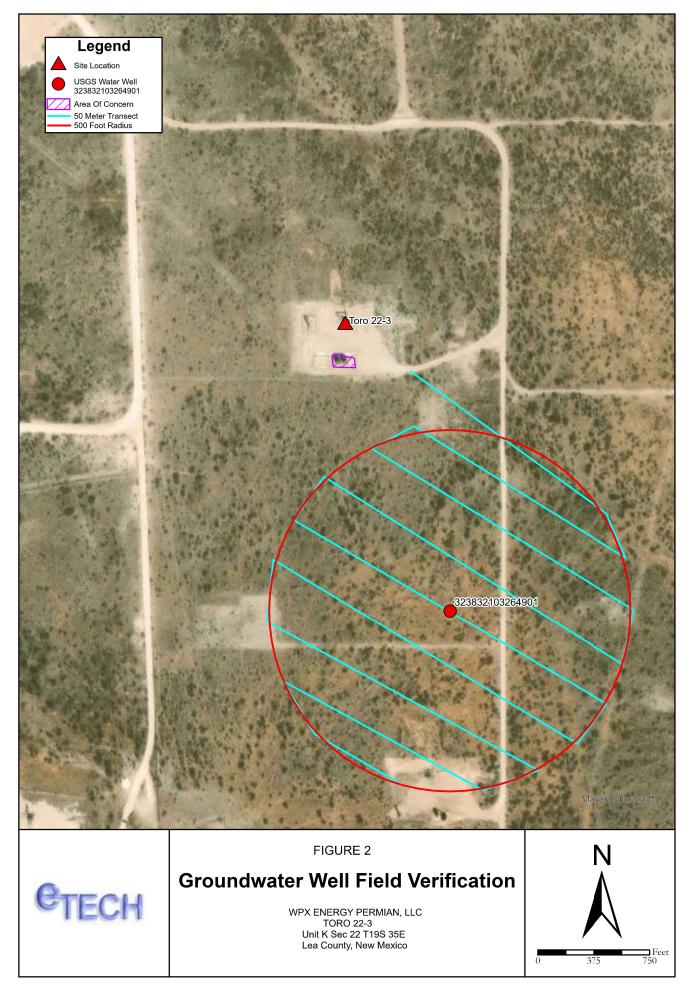
APPENDIX A

Figures

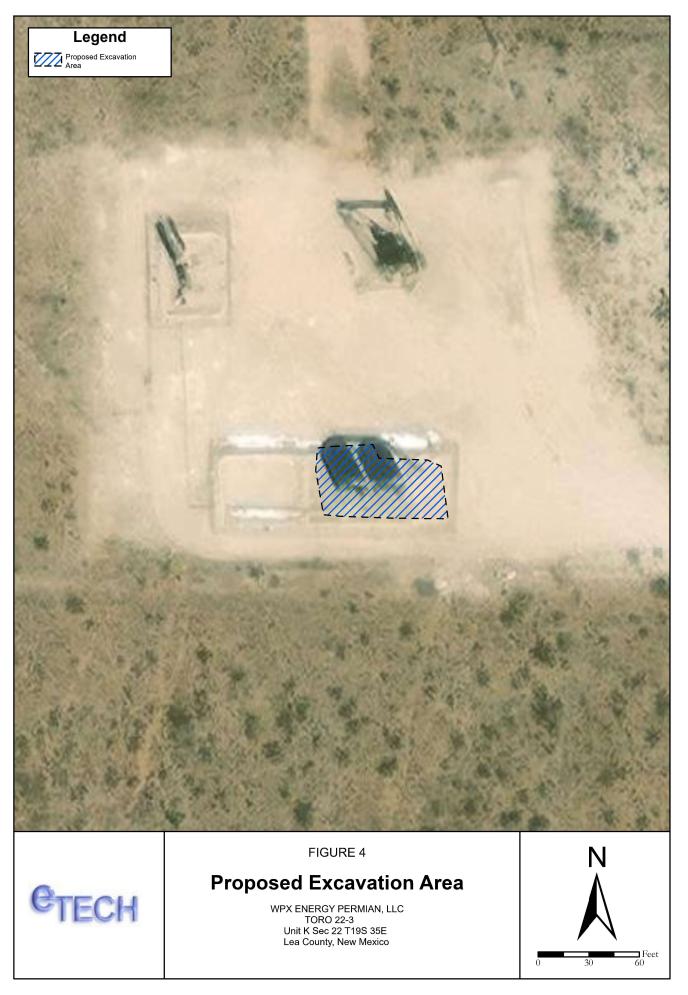
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213











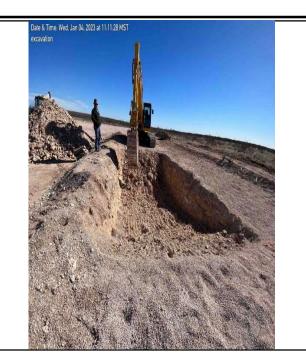
APPENDIX B

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.

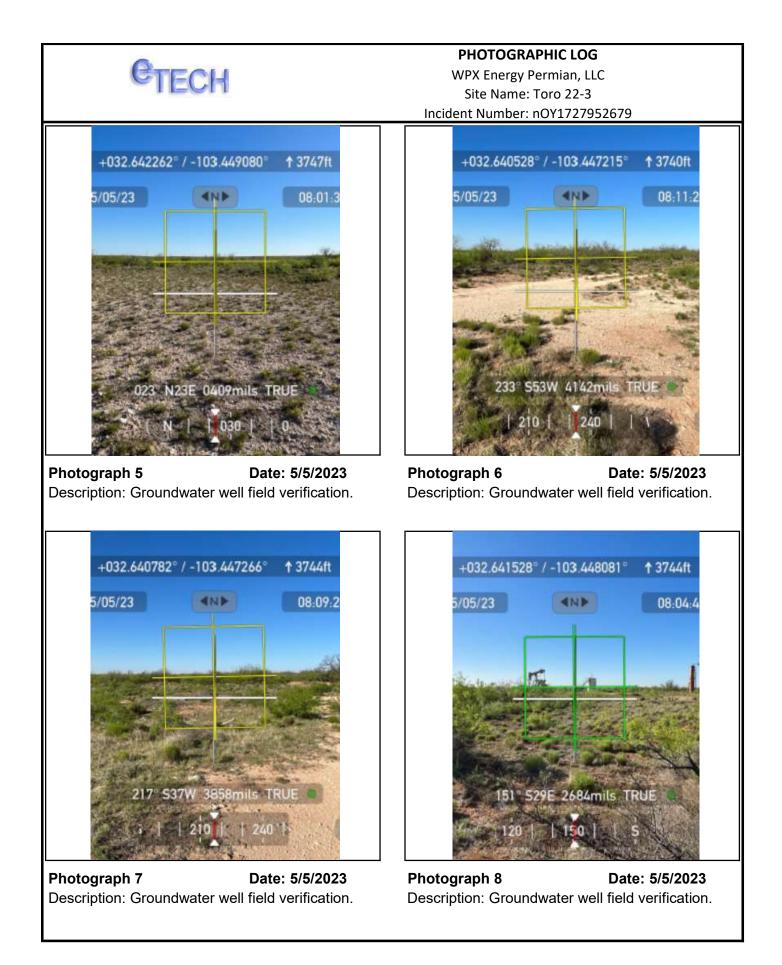
PHOTOGRAPHIC LOG WPX Energy Permian, LLC Site Name: Toro 22-3 Incident Number: nOY1727952679



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



✓ GO

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National Water Information System: Web Interface USGS Water Resources

| Data Category: | Geographic Area: | |
|----------------|------------------|--|

United States

Groundwater

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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 | | | A |
| 1963-03-19 | | D | 62611 | | 3725.50 | NAVD88 | 1 | Z | | | А |
| 1963-03-19 | | D | 72019 | 16.50 | | | 1 | Z | | | А |
| 1966-03-18 | | D | 62610 | | 3723.43 | NGVD29 | 1 | Z | | | А |
| 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 | | | A |
| 1971-01-27 | | D | 72019 | 16.68 | | | 1 | Z | | | А |
| 1976-01-29 | | D | 62610 | | 3724.17 | NGVD29 | 1 | Z | | | A |
| 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 | | | A |
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| 1986-02-04 | | D | 72019 | 16.54 | | | 1 | Z | | | A |
| 1991-04-17 | | D | 62610 | | 3723.62 | NGVD29 | 1 | Z | | | A |
| 1991-04-17 | | D | 62611 | | 3725.18 | NAVD88 | 1 | | | | A |
| 1991-04-17 | | D | 72019 | 16.82 | | | 1 | Z | | | A |

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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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| 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

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8

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

| | pplication No. L-4290 Book LC-17 Date Received October 2, 1959 | |
|-------------------|--|---|
| 1. | Name of applicant C. W. TRAINER Hobbs | |
| | Postoffice address. P. O. Box 2222 ; City or Town Hobbs | |
| | County of Lea , State of <u>New Mexico</u> | |
| 2. | Source of water supply | |
| | located in Lea County Underground Basin | |
| | (name of underground stream, valley, crtesian basin, etc.) | |
| 3. | The well is to be located in the $SW/4$ %, $SE/4$ %, $NW/4$ | |
| | of section 22 , Township. 19 South , Range 35 East , | N. M. P |
| | on land owned by State of New Mexico | |
| 4. | Description of well: driller Ed Burke ;WD No. 111 ; depth to be drilled 50 | |
| | diamenter (cutside) of casing7inches; type of pump and power plant | to be u |
| | Pump jack with industrial engine | |
| | | |
| 5. | Quantity of water to be appropriated and beneficially used three (3) | |
| | forOil well drilling (feet depth or acre feet per acre) | |
| - | NT | |
| 6. | | ac |
| | located and described as follows (describe only lands to be irrigated): | |
| | Acres Subdivision Sec. Twp. Range Irrigated Owner | |
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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. 1 year | |
| | Time required to fully apply water to beneficial use. not required | · . |
| • | Additional statements or explanations (including data on any other water rights appurtenant to above i | ands) |
| ж. | Signal State No. 1 | |
| 8. | This corrected Application is being filed to | |
| 8. | show the location of the well in the proper place | |
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| 8.00 | | - |
| 8.00 | I, <u>C. W. TRAINER</u> , being first duly sworn upon my oat d say that I have carefully read the foregoing statement and each and all of the items contained therein same are true to the best of my knowledge and belief. | , and th |
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| and the Sui | I. <u>C. W. TRAINER</u> , being first duly sworn upon my oad 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. bescribed and sworn to before me this <u>17th</u> day of <u>January</u> , A.D. | applica |
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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. $\widehat{\ }$

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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| 20: | 56 | 34 |
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WR-15

Page-97 of 208

8. 45

IMPORTANT-BEAD INSTRUCTIONS ON BACK BEFORE FILLING OUT

APPLICATION FOR PERMIT

To Appropriate the Underground Waters of the State of New Mexico

| LEA COUNTY U | INDERGROUND BASTN |
|---|--|
| Application No. L-4290 Book LC. | -17 Date Received October 2, 1959 |
| 1. Name of applicant C. W. Trainer | |
| | , City or Town Hobbs |
| County of Lea | , State ofNew Mexico |
| 2. Source of water supply | ow ground water basin |
| located in Lea County Unde | |
| (name of underground | ound stream, valley, artesian basin, etc.) |
| | <u>4, SW 4, NE 4.</u> <u>19 South , Range 35 East NMP.M.</u> |
| | |
| | W Mexico; WD No. 111; depth to be drilled50feet; |
| | |
| | strial engine |
| | <u> </u> |
| 5. Quantity of water to be appropriated and 1 | beneficially used three (3) |
| forOil well drilling | (feet depth or acre feet per acre) |
| 6. Acreage to be irrigated non | |
| located and described as follows (describe on | |
| | Acros |
| Subdivision Sec. | Twp. Range Irrigated Owner |
| | |
| • | |
| | |
| · | |
| | |
| · · · · · · · · · · · · · · · · · · · | |
| <u> </u> | |
| /Note: leasting of well and generate | to be irrigated must be shown on plat on reverse side.) |
| • · · · · · · · · · · · · · · · · · · | |
| 7. Time required to commence construction | as soon as possible ; l vear; |
| Time required to fully apply water to beneficia | a use not required |
| | ing data on any other water rights appurtenant to above lands) |
| | |
| | |
| · | |
| | |
| · | · |
| <u> </u> | |
| | , being first duly sworn upon my oath, depose statement and each and all of the items contained therein, and that |
| the same are true to the best of my knowledge a | |
| | - C. W. Trainan, applicant |
| | by: Edward B. Buche |
| Subscribed and sworn to before me this _22 | day of September AD. 1959 |
| | Telling Brite Harth |
| My Commission expires April 13, 1963 | Notery Public. |
| | |



Page 98 of 208

| APPROVAL | OF | THE | STATE | ENGINEER |
|----------|----|-----|-------|----------|
|----------|----|-----|-------|----------|

| Number of this permit— | L-4290 | Date received corrected | |
|-----------------------------|----------------------------|--------------------------------|-----------------------------------|
| | | Publication of notice or | |
| Page | 4290 | Name of paper | · |
| Application received | October 2, 1959 | Affidavit of publication | filed |
| Date returned for correct | ion | Date of approval | October 5, 1959 |
| This application is ap | proved for | 3 | acre feet of water |
| ubject to all prior valid a | and existing rights to the | use of the waters of said unde | erground source and provided that |
| | | | ing to the drilling of wells |
| (1) Casing no | t to exceed 7 incl | h OD and depth not to | exceed depth of the |
| ogallala. (2 | Appropriation no | ot to exceed 3 acre fe | et per acre for |
| domestic and | oil well drilling | operations. (3) Well | to be plugged upon |
| completion of | oil well drilling | g operations and plugg | ing 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 ACCUBATELY 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 Andrea G

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

1

Received by OCD: 9/21/2023 10:31:59 AM

Page 99 of 208

o

_feet:

acres

1961 WR - 15WR-15 IMPORTANT-READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM AM 8:25 **APPLICATION FOR PERMIT** FFICE 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 of section 22 N.M.P.M. 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 \dot{o} 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 ĊO 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 100 of 208

| Application received— Date returned for corr This application is subject to all prior vali the applicant complies Appropriation 1 A totalizing m readings shall on or before t | approved approved and ex with all r imited teter a be su be 30t | i for Isting rig rules and to 10 pprove bmitte b day | hts to the regulation of the second s | ne use of ons of the <u>feet</u> the Sts the Ros e follo | Date of the water e State E per an ate Eng swell 0 pwing E | approval _ 100 rs of said ngineer p num fr incer (incer (infice : onth. | underg ertainin om all shall for er | round so g to the c be ins ach cal | 1962 acr urce and irilling of cas con itallec endar | re feet of water provided that f wells abined i and month, |
|--|--|--|--|---|--|---|---|--|---|---|
| bed or other u | mdorly | ing fo | rmati | on. | <u> </u> | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | , | | | |
| Works shall be con Water shall be app | | | | | | | May 3) | 1. S. C. S. | | |
| This is to certify t | | SEC | | | | | | | | rground waters |
| of the State of New 1 | lexico ar | id hereby | بأ يتدسر | e the san | ne subject | | | | | |
| Witness my hand | | | 21st | | day of | May Reyno: | | | · · · · · · | A.D., 19_62. |
| LOCATE WELL AND | ACREA | E TO B | E IRRIO | ATED A | S ACCUR | ATELY | S POS | SIBLE O | N FOLLO | State Engineer |
| LOCATE WELL AND Section (5)2 | ~ | E TO B | | | | ATELY A | | | n folia Cast | |
| | ~ | | | | | | | | | DWING PLAT: , N.M.P.M. |
| | ~ | | | | | | | | | OWING PLAT: |
| Section (*) | ~ | | | | | | | | | DWING PLAT: , N.M.P.M. |
| Section (*) | ~ | | , Town | | | | | | | DWING PLAT: , N.M.P.M. |
| | ~ | | , Town | | | | | | | DWING PLAT: , N.M.P.M. |
| Section (*) | ~ | | , Town | | | | | | | DWING PLAT: , N.M.P.M. |

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.

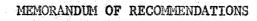
Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

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.

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

1



| FILE NO: | L-4290 | DATE: | May 13 | 1066 |
|------------------|--|-------------------|--------------------|-------------------|
| | 가 있다. 2011년 1월 1997년 1월 1997년 1997년 1월 1997년 1월 19 | | | , 1900 |
| TO: | Frank E. Irby, Chief, Water Rig | ghts Di | vision | |
| FROM: | Fred H. Hennighausen, Superviso | or, Dis | trict I | r |
| SUBJECT: | Cancellation of Permit No. L-42 | 90 | | |
| APPLICANT: | C. W. Trainer | | | |
| WELL: | SUBDIVISION SECTION SECTION SECTION 22 | OWNSHI 19 S. | | RANGE 35 E. |
| USE: | Water flood of Pearl Queen Fiel South, Range 35 East. | d in 7 | ownship. | 19 |
| REASON: | Applicant states: "I am going on May 31." | to let | this e: | x pire |
| CONSIDERATIONS: | Permit No. 1-4290 was approved acre feet to be used for the se oil. | May 21 econdar | , 1962 y recove | for 100 ery of |
| | Well No. L-4290 was an existing | ; well. | | |
| 6 | The applicant returned our lett with a notation that he will le on May 31, 1966. | | | |
| RECOMMENDATIONS: | It is recommended that Permit N at the request of the applicant | | 290 be (| cancelled |
| | | | | |
| | | | | |

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: | SUBDIVISIONSECTIONTOWNSHIPRANGESW4SE4NW422197535-E |
| REASON: | Water Flood of Pearl Queen Field - Township 19 South, Range 35 East. |
| CONSIDERATIONS: | 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 L-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. 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. 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. |
| | 5. There are no other permits for the secondary recovery of oil that include the $W_2^1NE_4^1 \& E_2^1NW_4^1$ of Section 22, Township 19 South, Range 35 East. |

RECOMMENDATIONS:

Approval is recommended.

Fred H. Hennighausen Supervisor, District II

ECB*jd encl.

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.
- 4. 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

October 17, 1961

Gene Gray 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 -9-61 0 -Field Check Requested For the Following Reasons Date: 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 <u>/9</u> R.35 R. 35 Sec. 27 T. Sec. Т. 19 15 240 SE4Sh Old Well (plugged-retained-reduced) REMARKS: WI 1240 V 4383 こ A \leq -5W4 as st Date: Вy File No. Location No.

WR-36

Page 106 of 208

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FIELD REPORT FOR CEMENTING OF WELLS

| Name of Applicant |
|--|
| Driller's Name Drilling Method CASING DATA: Surfacefeet ofinch. Grade Inspected byon |
| Drilling Method CASING DATA: Surfacefeet ofon |
| CASING DATA: Surfacefeet ofon |
| (Approved)(Rejected) Water stringfeet ofinch. Grade Inspected byon |
| Water stringfeet ofon |
| Inspected by on (Approved)(Rejected) on Oil string feet of inch. Grade Inspected by on (Approved)(Rejected) on (Approved)(Rejected) (Approved)(Rejected) CEMENTING PROGRAM: Cemented by Supervised by Type of shoe used Float collar used Bottom three joints welded Cement: around shoe sks. around casing sks. Additives Size of hole Size of casing sks. of cement required Plug pumped down (a.m.)(p.m.) Cement at feet Temp. survey ran (a.m.)(p.m.) Cement at feet Checked for shut off (a.m.) (p.m.) Cement at feet Checked for shut off (a.m.) (p.m.) Cement at feet |
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| (Approved)(Rejected) |
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| around casing |
| Size of hole |
| 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.) Checked for shut off (a.m.) (p.m.) Method used Supervised by Checked for shut off (a.m.) (p.m.) |
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| Checked for shut off (a.m.) (p.m.) |
| Checked for shut off (a.m.) (p.m.) |
| Method usedSupervised by |
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| REMARKS: |
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| |
| Job approved by |
| File No Location No |

Released to Imaging: 1/19/2024 9:23:32 AM

STATE ENGINEER O. ICE MEMO DATE 10-3-61 TO: 1 Jar () For Your Information) Note & Return (() For Your Files) Circulate ((X) For Your Handling () REMARKS: This file indicates sko 2 -4290 have been pla There 10-5-60. jo_ shr he night to use the this wel ail well 1961x e a during

. 8

C. W. TRAINER

7. G. SCX 8222 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

س _{در ا}

| 9. | No commitments | to date, but I have 8 | producing wells in this |
|----|----------------|-----------------------|-------------------------|
| | field and plan | to drill about 4 more | this year. Shell is |
| | 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 | | |
|------|----|-----|--------------|--|--|
| 1.44 | P. | 0. | Box 2222 | | |
| | Ho | bbs | , New Mexico | | |

, New Mexico

Page 110 of 208

| WI | R-20 |
|-------|-------|
| (Rev. | 9/58) |

Dear <u>Sir</u>:

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

Hobbs Flare or Hobbs Daily News-Sun

Roswell

a newspaper published at

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.

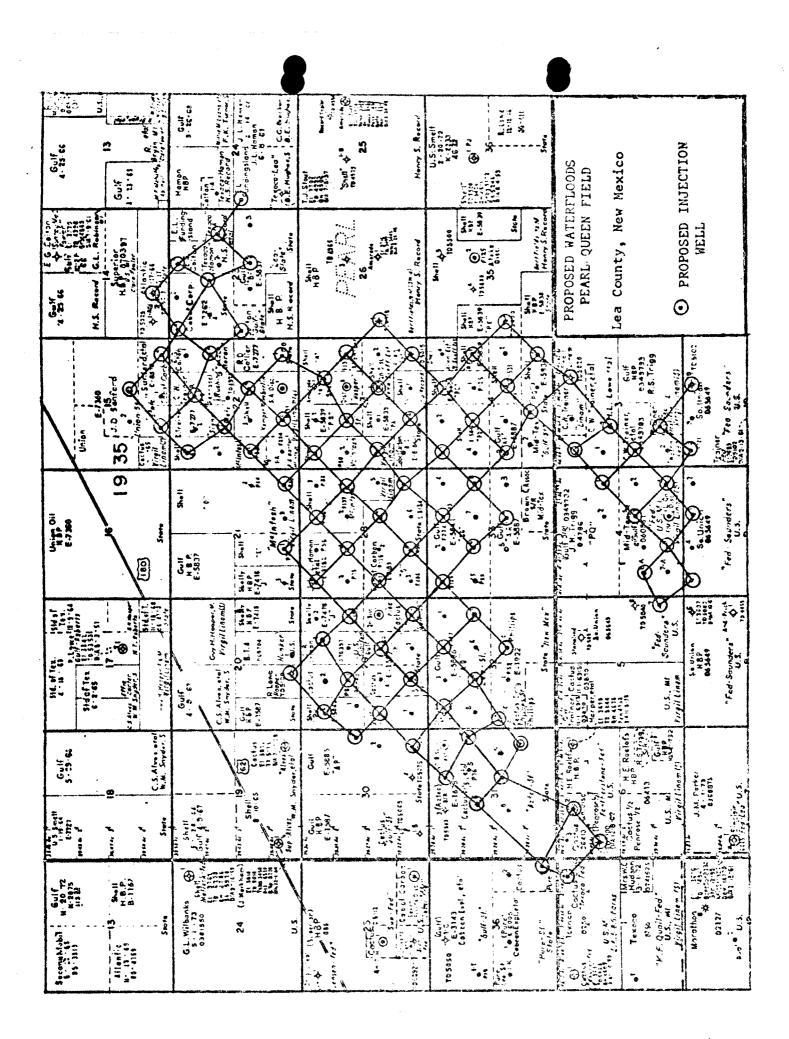
| Basin Supervisor NOTE TO PUBLISHER: Immediately after last publication, publisher is requested to file affidavit of proof of such publication with the State Engineer, P. O. Box | | | | | | | |
|--|---------|-----------------------------|--|--|--|--|--|
| N O State Eng | | Office | | | | | |
| Number of Application | | | | | | | |
| 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 Co | unty of | Lea | | | | | |

State of <u>New Mexico</u>, 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

| S. E. Reynolds State Engine | da | ıy of | | 19 _ | | S | . 1 | E.) | Reynolds | | State | Engine |
|-----------------------------|----|-------|--|------|--|---|-----|------|----------|--|-------|--------|
|-----------------------------|----|-------|--|------|--|---|-----|------|----------|--|-------|--------|

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.



STATE ENGINEER OFFICE ÛĠ

WELL RECORD

IGNAL

Page 112 of 208

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 | Section 1 | |
|-----------|-----------|--|
|-----------|-----------|--|

Form WR-23

• *

| | (A) Owner of well 4. 3. Trainer | ······································ |
|---------------------|---|--|
| | Street and Number Box 2222 | |
| | City Hobbs | State New Next co |
| | Well was drilled under Permit No. <u>SE 14 SW 14 NE 14 of Section 22</u> | |
| | (B) Drilling ContractorEd Burke Street and Number Box 306 | |
| | City | |
| | Drilling was commenced | September 22 19 59 |
| | Drilling was completed | |
| (Plat of 640 acres) | | |

(Plat of 640 acres)

Elevation at top of casing in feet above sea level_____Total depth of well_45 State whether well is shallow or artesian Shallow Depth to water upon completion 18

| Section | 2 | | PRIN | NCIPAL WATER-BEARING STRATA |
|---------|-------|---------|--------------|--|
| No. | Depth | in Feet | Thickness in | Description of Water-Bearing Formation |
| 110. | From | To | Feet | |
| 1 | 18 | 32 | 14 | Gravel. |
| 2 | | | | |
| 3 | | | | |
| 4 | | 1 | | |
| 5 | | | | |

| Section 3 | 3 | | | RECOR | ORD OF CASING | | | | | | |
|-----------|--------|---------|-------|--------|---------------|-----------|------|-----------|----------|-----------|--|
| Dia | Pounds | Threads | Depth | | Depth | | Feet | Type Shoe | Per | forations | |
| in. | ft. | in | Top | Bottom | reel | Type Suce | From | То | | | |
| 6 | 17 | 8 | 0 | 40 | 40 | open | 10 | 40 | | | |
| | | | | | | · · · · · | | | | | |
| <u> </u> | ••••• | | [| | | | | — | <u> </u> | | |

| Section 4 | | | RECORD | | AND | CEMEN | ING | · | | |
|---------------------------------------|---------------------------|-------------------------------|------------|---------------------------------------|-------------------|---------------------------------------|--------------|--|--|--|
| Depth in Feet Diameter Tons No. Sacks | | | | | s of Methods Used | | | | | |
| From | To | Hole in in. | Clay | Cement | at Meillous Useu | | | | | |
| | | | | | | | | • | | |
| | | | | | | | | ······································ | | |
| | | | | | | <u> </u> | | | | |
| Section 5 | | | | PLUGGING I | RECO | RD | | | | |
| Name of 1 | Plugging | Contractor | | | ·· | | Ľ | icense No | | |
| Street and | Numbe | r | | City | r | | St | icense No ate: | | |
| Tons of Cl | ay used | ī | ons of Ro | ughage used | | | Type of r | oughage | | |
| Plugging r | nethod u | sed | | | | Dat | e Plugged | 19 | | |
| Plugging a | pproved | by: | | | | Cemen | t Plugs were | placed as follows: | | |
| | | | | · · · · · · · · · · · · · · · · · · · | No. | Depth | of Plug | | | |
| | | | Basin Supe | rvisor | 140. | From | To | No. of Sacks Used | | |
| | FOR USE | OF STATE ENG | SINEER ON | ILY | <u> </u> | · · · · · · · · · · · · · · · · · · · | | | | |
| 5314 |) (ن.ز. عبد بروندر الک | 112111 9 | <u>م</u> | | | | | | | |
| 87:8 | WØ 6- | - <u>120 6261</u> 1959 OCL | | | | | | | | |

Use 1 2. D. Location No. 19.35. 22.

File No.

| Section 6 | S | ec | ti | on | 6 |
|-----------|---|----|----|----|---|
|-----------|---|----|----|----|---|

LOG OF WELL

| Depth | in Feet | Thickness | Color | Type of Material Encountered |
|--|---------|-----------|--|---------------------------------------|
| From | То | in Feet | Color | Type of Material Encountered |
| 0 | 2 | 2 | | Surface soil |
| 2 | 15 | 13 | | Galiche |
| 15 | 18 | 3 | | Sand Hock |
| 18 | 32 | 14 | | Gravel (water) |
| 32 | 45 | 19 | ал төрдүлтөн каларын бар түүдөдөн көктүүлөлөн калдар саналас. Сон түүлөр | Red Clay |
| | | | | |
| | | | | 1 |
| | | | | L S Elev 3 /4/8 Depth to K |
| | | | | Listlev Trc |
| | ···· | | | Elev of KTrc = 77.2 |
| | | | | |
| | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | Loc. No. 19.25.22. 1434+ |
| | | | | Hydro, SurveyField Check |
| | | | | |
| | | | | |
| | | | | SOURCE OF ALTITUDE GIVEN |
| | | | | Interpolated from Topo. Sheet |
| · | | | | Determined by Inst. Leveling |
| | | | | |
| | | | | |
| | | | | |
| <u>. </u> | | | | |
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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

Released to Imaging: 1/19/2024 9:23:32 AM

APPENDIX D

Lithologic Sampling Logs

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



•

| | | | | | | | | Sample Name: DH01 | Data: 01/04/2022 | | |
|---------------------|--------------------------------|----------------|----------|------------|-------------------------------|---------------------|---|---|----------------------------------|--|--|
| | - | | | n n | | | | Sample Name: PH01 Site Name: Toro 22-3 | Date: 01/04/2023 | | |
| | | -(| | | | | | | 2670 | | |
| | | | | | | | Incident Number: nOY1727952679 Job Number: 18136 | | | | |
| | LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Mothod: DC 210 L C Track LL- | | |
| Site Co | | | | | | | 2 | Logged By: Edyte Konan Hole Diameter: N/A | Method: PC 210 LC Track Hoe | | |
| | ordinates: | | | | | - Chlorida | Test Strin | Hole Diameter: N/A s and PID for chloride and vapo | Total Depth: 21 feet (ft) | | |
| | | | | | | | | bw ground surface | n, respectively. Chionae test | | |
| 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 | e silt, no staining, no odor | | |
| Dry | 1831.2 | 0.1 | No | PH01 | 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 | | | | | |
| | 545.0 | | | BUGA | | | | | | | |
| Dry | 515.2 | 0.1 | NO | PH01 | 21 | 21 Tota | l al Depth: | 21 ft bas | | | |
| | | | | | | | | | | | |

•

| | | | | | | | | Sample Name: PH02 | Date: 06/30/2023 | | | |
|---------------------|---|----------------|----------|---------------|-------------------------------|---------------------|---------------------|-------------------------------|------------------------------------|--|--|--|
| | | | | | | | | Site Name: Toro 22-3 | - | | | |
| | | | | | | | | Incident Number: nOY172795 | 2679 | | | |
| | | | | | | | | Job Number: 18136 | | | | |
| | LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | Logged By: Edyte Konan | Method: 336E Track Hoe | | | |
| Site Coo | ite Coordinates: 32.644579, -103.448392 | | | | | | | Hole Diameter: N/A | Total Depth: 21 feet (ft) | | | |
| | | | | | | H Chloride | Test Strip | | or, respectively. Chloride test | | | |
| | | | | | | | | w ground surface | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (feet bgs) | Depth (feet bgs) | USCS/Rock Symbol | | escriptions/Notes | | | |
| | 100 | | | B 1100 | | | SW/SM | | , well graded with little silt and | | | |
| Dry | <168 | 0.0 | No | PH02 | 0.5 _ | 0.5 | | gravel, fine to coarse, no st | taining, no odor | | | |
| Dry | 330.4 | 0.1 | No | - | 1 _ | - 1 - | | @ 20 ft and 21 ft bgs: som | e silt, no staining, no odor | | | |
| Dry | - | - | No | - | 2 | 2 2 | | | | | | |
| Dry | - | - | No | - | 3 | - 3 - 3 | | | | | | |
| Dry | 918.4 | 0.0 | No | - | 4 _ // | 47/ | | | | | | |
| Dry | 918.4 | 0.0 | No | PH02 | 10 _ | <u>-</u> 10 | | | | | | |
| Dry | 772.8 | 0.0 | No | PH02 | 18 _ - | 18 | | | | | | |
| Dry | - | - | No | - | 19 | 19 19 | | | | | | |
| Dry | - | - | No | - | 20 _ | 20 2 | | | | | | |
| Dry | 470.4 | 0.0 | No | PH02 | 21 | 21 | | | | | | |
| | | 5.5 | | 102 | ' | | al Depth: | 21 ft bgs | | | | |
| | | | | | | | | - | | | | |

•

| | | | | | | | | Sample Name: PH03 | Date: 06/30/2023 | | | |
|---------------------|--|----------------|----------|--------------|-------------------------------|---------------------|---------------------|--------------------------------|------------------------------------|--|--|--|
| | | | | | | | | Site Name: Toro 22-3 | | | | |
| | | | - | | | | | Incident Number: nOY172795 | 2679 | | | |
| | | | | | | | | Job Number: 18136 | | | | |
| | LITHO | LOGI | | | SAMPLI | | `` | Logged By: Edyte Konan | Method: 336E Track Hoe | | | |
| Site Coo | LITHOLOGIC / SOIL SAMPLING LOG Site Coordinates: 32.644579, -103.448392 | | | | | | | Hole Diameter: N/A | Total Depth: 21 feet (ft) | | | |
| | | | | | | H Chloride | Test Strip | s and PID for chloride and vap | | | | |
| | | | | | | | | w ground surface | , i j | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (feet bgs) | Depth (feet bgs) | USCS/Rock Symbol | | scriptions/Notes | | | |
| | 004.0 | | | BUIGO | | | SW/SM | | , well graded with little silt and | | | |
| Dry | 291.2 | 0.0 | NO | PH03 | 0.5 _ | 0.5 | | gravel, fine to coarse, no st | aining, no odor | | | |
| Dry | 151.2 | 0.0 | No | - | 1 _ - - | - 1 - 1 - | | @ 20 ft and 21 ft bgs: some | e silt, no staining, no odor | | | |
| Dry | - | - | No | - | 2 _ | 2 | | | | | | |
| Dry | - | - | No | - | 3 | - 3 - 3 | | | | | | |
| Dry | 700 | 0.0 | No | - | 4 4 | | | | | | | |
| Dry | 1,080.8 | 0.0 | No | PH03 | 10 _ | - 10 - 10 | | | | | | |
| Dry | 772.8 | 0.0 | No | PH03 | 18 _ - | - 18 - 18 | | | | | | |
| Dry | - | - | No | - | 19 | 19 | | | | | | |
| Dry | - | - | No | - | 20 _ | 20 | | | | | | |
| Dry | 291.2 | 0.0 | No | PH03 | | - 21 Tota | al Depth: | 21 ft bas | | | | |
| | | | | | | 1012 | | | | | | |

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Tables

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



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| e _{TE} | Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Toro 22-3 Lea County, New Mexico | | | | | | | | | | | | |
|-------------------------------------|---|----------------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--|--|--|--|
| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) | | | | |
| NMOCD Table I Cl a Release (NMAC | | or Soils Impacted by | 10 | 50 | NE | NE | NE | 100 | 600 | | | | |
| | Delineation Soil Samples - 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

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

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



5 6

Received by OCD: 9/21/2023 10:31:59 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

Released to Imaging: 1/19/2024 9:23:32 AM

Received by OCD: 9/21/2023 10:31:59 AM

1

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

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| QC Sample Results | 12 |
| QC Association Summary | 16 |
| Lab Chronicle | 18 |
| Certification Summary | 20 |
| Method Summary | 21 |
| Sample Summary | 22 |
| Chain of Custody | 23 |
| | 24 |
| | |

| | Definitions/Glossary | | |
|-------------------|---|--------------------|----|
| Client: Ensolum | | Job ID: 890-3770-1 | |
| Project/Site: Tor | ro 22-3H | SDG: 03A1987030 | |
| Qualifiers | | | 3 |
| GC VOA | | | |
| Qualifier | Qualifier Description | | |
| 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 | | |
| S1+ | Surrogate recovery exceeds control limits, high biased. | | |
| U | Indicates the analyte was analyzed for but not detected. | | |
| HPLC/IC | | | |
| Qualifier | Qualifier Description | | 8 |
| U | Indicates the analyte was analyzed for but not detected. | | |
| Glossary | | | 9 |
| 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) | | 1: |
| Dil Fac | Dilution Factor | | |
| 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 | | |
| QC | Quality Control | | |
| RER | Relative Error Ratio (Radiochemistry) | | |
| RL RPD | Reporting Limit or Requested Limit (Radiochemistry) | | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | | |

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

- TEFToxicity Equivalent Factor (Dioxin)TEQToxicity Equivalent Quotient (Dioxin)
- TEQ Toxicity Equivalent Quote TNTC Too Numerous To Count

Eurofins Carlsbad

Job ID: 890-3770-1

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4

SDG: 03A1987030

Job ID: 890-3770-1

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

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)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

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

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

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Sar

| SDG: 03A1 | 987030 | 2 |
|-------------------------|--------------------|----|
| mple ID: 890-3 Matri | 3770-1 x: Solid | 3 |
| | | 4 |
| | | 5 |
| Analyzed | Dil Fac | |
| 01/06/23 13:22 | 1 | 6 |
| 01/06/23 13:22 | 1 | |
| 01/06/23 13:22 | 1 | 7 |
| 01/06/23 13:22 | 1 | |
| 01/06/23 13:22 | 1 | 8 |
| 01/06/23 13:22 | 1 | |
| Analyzed | Dil Fac | 9 |
| 01/06/23 13:22 | 1 | 40 |
| 01/06/23 13:22 | 1 | 10 |
| Analyzed | Dil Fac | 11 |
| 01/06/23 15:30 | 1 | 12 |
| Analyzed | Dil Fac | 13 |
| 01/06/23 16:56 | 1 | |
| 01100/2010.00 | · | 14 |
| Analyzed | Dil Fac | |
| 01/06/23 14:02 | 1 | |
| 01/06/23 14:02 | 1 | |
| 01/06/23 14:02 | 1 | |
| Analyzed | Dil Fac | |
| 01/06/23 14:02 | 1 | |
| 01/06/23 14:02 | 1 | |
| | | |

| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
|---|----------------|--------------|----------|-----|-------|---|----------------|----------------|-----------|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 13:22 | |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 13:22 | |
| Method: TAL SOP Total BTEX - T | otal BTEX Cal | culation | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00401 | U | 0.00401 | | mg/Kg | | | 01/06/23 15:30 | |
| Method: SW846 8015 NM - Diese | I Range Organ | ics (DRO) (| GC) | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 01/06/23 16:56 | |
| - Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| 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 | Dil Fa |
| 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 | |
| Method: MCAWW 300.0 - Anions | , Ion Chromato | ography - So | oluble | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Chloride | 18.4 | | 5.04 | | mg/Kg | | | 01/06/23 14:42 | |
| Client Sample ID: PH01 | | | | | | | Lab San | nple ID: 890- | 3770-2 |
| ate Collected: 01/04/23 13:40 | | | | | | | | Matri | ix: Solid |
| Date Received: 01/05/23 10:30 | | | | | | | | | |
| Sample Depth: 5' | | | | | | | | | |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 01/05/23 13:12 | 01/06/23 13:43 | |
| | | | | | | | | | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | DilFac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| 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 |

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Client Sample Results

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

Matrix: Solid

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'

Project/Site: Toro 22-3H

Client: Ensolum

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 BTE | X - Total BTEX Calo | 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 | iesel Range Organ | ics (DRO) (| GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | 11 | 49.9 | | mg/Kg | | | 01/06/23 16:56 | 1 |

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

| 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 |
| 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 |
| | | | | | | | | | |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | MDL Unit | 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 01/06/23 14:03 m-Xylene & p-Xylene <0.00398 U 0.00398 01/05/23 13:12 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 Analvzed 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 U 0.00398 01/06/23 15:30 mg/Kg 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| | ange ergan | | , | | | | | | |
|-----------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| 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 |

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Client Sample Results

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

Lab Sample ID: 890-3770-3

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 - To | otal BTEX Calo | 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 - Diesel | Range Organ | ics (DRO) (| GC) | | | | | | |
| Analyte | | 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 - Diese | el Range Orga | nics (DRO) | (GC) | | | | | | |
| Analyte | | 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 C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:06 | 1 |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:06 | 1 |
| | | | | | | | | | |

 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

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| | | Clier | nt Sample R | esults | ; | | | | |
|---|-----------------|-------------|-------------|--------|-------|---|----------------|----------------|-----------|
| Client: Ensolum | | | | | | | | Job ID: 890 | -3770-1 |
| Project/Site: Toro 22-3H | | | | | | | | SDG: 03A1 | 1987030 |
| Client Sample ID: PH01 | | | | | | | Lab Sar | 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' | | | | | | | | | |
| | | | - luch la | | | | | | |
| Method: MCAWW 300.0 - Anions Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1940 | | 25.2 | | mg/Kg | | | 01/06/23 15:07 | 5 |
| Client Sample ID: PH01 | | | | | | | Lab Sar | nple ID: 890- | 3770-5 |
| Date Collected: 01/04/23 15:10 | | | | | | | | | ix: Solid |
| Date Received: 01/05/23 10:10 | | | | | | | | Wath | . 0011u |
| Sample Depth: 20' | | | | | | | | | |
| | | | | | | | | | |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (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 14:45 | 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 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 124 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | | 01/05/23 13:12 | 01/06/23 14:45 | 1 |
| | Total BTEX Cald | 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 |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (| GC) | | | | | | |
| Analyte | | 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 - Die | sel Range Orga | nics (DRO) | (GC) | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| (GRO)-C6-C10 Diesel Range Organics (Over | <50.0 | U. | 50.0 | | mg/Kg | | 01/06/23 08:58 | 01/06/23 15:28 | 1 |
| C10-C28) | -50.0 | 5 | 50.0 | | | | 01/00/20 00.00 | 51/00/20 10.20 | I |
| 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 | 101 | | 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 | lon Chromato | ography - S | olublo | | | | | | |
| | | | Uluble | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

Result Qualifier

Qualifier

<0.00201 U

<0.00201 U

<0.00201 U

<0.00402 U

<0.00201 U

<0.00402 U

126

97

<0.00402 U

Result Qualifier

%Recovery

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

Limits

70 - 130

70 - 130

RL

0.00402

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MDL Unit 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

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-3770-6

Analyzed

01/06/23 15:05

01/06/23 15:05

01/06/23 15:05

01/06/23 15:05

01/06/23 15:05

01/06/23 15:05

Analyzed

01/06/23 15:05

01/06/23 15:05

Analyzed

01/06/23 15:30

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

Prepared

01/05/23 13:12

01/05/23 13:12

Prepared

D

D

Matrix: Solid

5 Dil Fac Dil Fac Dil Fac

1

1

1

1

1

1

1

1

| 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 - Diesel | 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 |
| o-Terphenyl | 117 | | 70 - 130 | | | | 01/06/23 08:58 | 01/06/23 16:11 | 1 |
| Method: MCAWW 300.0 - Anions, Io | on Chromato | ography - So | pluble | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 654 | | 4.98 | | mg/Kg | | | 01/06/23 15:17 | 1 |

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Released to Imaging: 1/19/2024 9:23:32 AM

Job ID: 890-3770-1

Prep Type: Total/NA

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

| | | 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

6

SDG: 03A1987030

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Released to Imaging: 1/19/2024 9:23:32 AM

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Client Sample ID: Method Blank

Prep Type: Total/NA

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Lab Sample ID: MB 880-43267/5-A

Matrix: Solid alveis Batch: 43325

| Analysis Batch: 43325 | | | | | | | | Prep Batch | n: 43267 |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|-----------------|
| | MB | MB | | | | | | | |
| 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 Junio Potol

| 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

| Analysis Batch: 43325 | | | | | | | | | Prep | p 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 | |

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Prep Type: Total/NA

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 43267

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Client Sample ID: Matrix Spike

QC Sample Results

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

| Lab Sample ID: 880-23201-/ | A-1-H MS | | | | | | | Client | Sample ID | : Matrix | Spike |
|--|---|--|--|---|------------------|---------------------------------------|---------|-------------------------------------|--|--|---|
| Matrix: Solid | | | | | | | | | Prep 1 | Type: To | tal/NA |
| Analysis Batch: 43325 | | | | | | | | | Prep | Batch: | 43267 |
| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %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 | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 _ 130 | | | | | | | | |
| | | | | | | | | | | | |
| Lab Cample ID: 000 02004 | | | | | | ~ | | | Matrix Or | | |
| | A-1-I MSD | | | | | CI | ient S | ample ID |): Matrix Sp | | |
| Matrix: Solid | A-1-I MSD | | | | | CI | ient S | ample ID | Prep 1 | Гуре: То | tal/NA |
| Matrix: Solid | | 0 | 0 | MOD | MOD | CI | ient S | ample ID | Prep 1 Prep | | tal/NA 43267 |
| Matrix: Solid Analysis Batch: 43325 | Sample | Sample | Spike | MSD | MSD | | | ÷. | Prep 1 Prep %Rec | Type: To Batch: | tal/NA 43267 RPD |
| Matrix: Solid Analysis Batch: 43325 ^{Analyte} | Sample Result | Qualifier | Added | Result | MSD Qualifier | Unit | ient Sa | %Rec | Prep 1 Prep %Rec Limits | Batch: | tal/NA 43267 RPD Limit |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene | Sample | Qualifier | Added | Result 0.09575 | | _ <mark>Unit</mark> mg/Kg | | %Rec 95 | Prep 1 Prep %Rec Limits 70 - 130 | Type: To Batch: RPD 11 | tal/NA 43267 RPD Limit 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene | Sample Result <0.00199 <0.00199 | Qualifier U U | Added 0.100 0.100 | Result 0.09575 0.08902 | | _ <mark>Unit</mark> mg/Kg mg/Kg | | % Rec 95 89 | Prep 7 Prep %Rec Limits 70 - 130 70 - 130 | Type: To Batch: RPD 11 11 | tal/NA 43267 RPD Limit 35 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene | Sample Result <0.00199 <0.00199 <0.00199 | Qualifier U U U F1 | Added 0.100 0.100 0.100 | Result 0.09575 0.08902 0.07687 | | - <mark>Unit</mark> mg/Kg mg/Kg | | %Rec 95 89 77 | Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | Sample Result <0.00199 <0.00199 <0.00199 <0.00398 | Qualifier U U U F1 U | Added 0.100 0.100 0.100 0.200 | Result 0.09575 0.08902 0.07687 0.1675 | | Unit mg/Kg mg/Kg mg/Kg | | %Rec 95 89 77 84 | Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | Sample Result <0.00199 <0.00199 <0.00199 | Qualifier U U U F1 U | Added 0.100 0.100 0.100 | Result 0.09575 0.08902 0.07687 | | - <mark>Unit</mark> mg/Kg mg/Kg | | %Rec 95 89 77 | Prep 7 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene | Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 | Qualifier U U U F1 U | Added 0.100 0.100 0.100 0.200 | Result 0.09575 0.08902 0.07687 0.1675 | | Unit mg/Kg mg/Kg mg/Kg | | %Rec 95 89 77 84 | Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 11 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 35 |
| Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene | Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 | Qualifier U U U F1 U U MSD | Added 0.100 0.100 0.100 0.200 | Result 0.09575 0.08902 0.07687 0.1675 | | Unit mg/Kg mg/Kg mg/Kg | | %Rec 95 89 77 84 | Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 11 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 35 |
| Lab Sample ID: 880-23201-7 Matrix: Solid Analysis Batch: 43325 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) | Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MSD | Qualifier U U U F1 U U MSD | Added 0.100 0.100 0.100 0.200 0.100 | Result 0.09575 0.08902 0.07687 0.1675 | | Unit mg/Kg mg/Kg mg/Kg | | %Rec 95 89 77 84 | Prep 7 Prep 7 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 | RPD 11 11 11 11 11 11 11 | tal/NA 43267 RPD Limit 35 35 35 35 |

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

| Lab Sample ID: MB 880-43343/1-A Matrix: Solid Analysis Batch: 43315 | | | | | | | Client Sa | mple ID: Metho Prep Type: ⊺ Prep Batch | otal/NA |
|---|-----------|-----------|----------|-----|-------|---|----------------|--|---------|
| | MB | MB | | | | | | | |
| 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 08:18 | 01/06/23 08:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| | MB | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 150 | S1+ | 70 - 130 | | | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| o-Terphenyl | 137 | S1+ | 70 - 130 | | | | 01/06/23 08:18 | 01/06/23 08:29 | 1 |
| Lab Sample ID: LCS 880-43343/2-A | | | | | | c | lient Sample I | D: Lab Control | Sample |
| Matrix: Solid | | | | | | | | Prep Type: 1 | otal/NA |

Matrix: Solid Analysis Batch: 43315

| Analysis Batch: 43315 | | | | | | | Prep | Batch: 43343 |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--------------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 1055 | | mg/Kg | | 106 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 1009 | | mg/Kg | | 101 | 70 - 130 | |
| C10-C28) | | | | | | | | |

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QC Sample Results

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

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

| Lab Sample ID: LCS 880-4334 | 3/2-A | | | | | | Client | Sample | D: Lab C | | |
|------------------------------|-----------|-----------|----------|--------|-----------|-------|---------|----------|-------------|-----------|-------|
| Matrix: Solid | | | | | | | | | | Type: Tot | |
| Analysis Batch: 43315 | | | | | | | | | Prep | Batch: | 43343 |
| | LCS | LCS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 128 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 117 | | 70 - 130 | | | | | | | | |
| | | | | | | | | | | | |
| Lab Sample ID: LCSD 880-433 | 343/3-A | | | | | Clier | nt Sam | ple ID: | Lab Contro | | |
| Matrix: Solid | | | | | | | | | | Type: Tot | |
| Analysis Batch: 43315 | | | | | | | | | | Batch: | 43343 |
| | | | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | | | 1000 | 994.1 | | mg/Kg | | 99 | 70 - 130 | 6 | 20 |
| (GRO)-C6-C10 | | | 1000 | 1000 | | | | 100 | | | |
| 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 | | | | | | | | |
| | | | | | | | | | | | |
| Lab Sample ID: 890-3758-A-10 | 01-D MS | | | | | | | Client | Sample ID | | |
| Matrix: Solid | | | | | | | | | | Type: Tot | |
| Analysis Batch: 43315 | | | | | | | | | Prep | Batch: | 43343 |
| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics | <49.9 | U | 998 | 1138 | | mg/Kg | | 112 | 70 - 130 | | |
| (GRO)-C6-C10 | | | | | | | | | | | |
| Diesel Range Organics (Over | 90.7 | | 998 | 1021 | | mg/Kg | | 93 | 70 - 130 | | |
| C10-C28) | | | | | | | | | | | |
| | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 101 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 96 | | 70 - 130 | | | | | | | | |
| | | | | | | | | | | | |
| Lab Sample ID: 890-3758-A-10 | 01-E MSD | | | | | CI | ient Sa | ample IC |): Matrix S | | |
| Matrix: Solid | | | | | | | | | Prep 1 | Type: Tot | al/NA |
| Analysis Batch: 43315 | | | | | | | | | Prep | Batch: | 43343 |
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | <49.9 | U | 997 | 980.3 | | mg/Kg | _ | 96 | 70 - 130 | 15 | 20 |
| (GRO)-C6-C10 | | | | | | | | | | _ | |
| Diesel Range Organics (Over | 90.7 | | 997 | 1038 | | mg/Kg | | 95 | 70 - 130 | 2 | 20 |
| C10-C28) | | | | | | | | | | | |
| | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 98 | | 70 - 130 | | | | | | | | |
| | | | | | | | | | | | |

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Client: Ensolum

Project/Site: Toro 22-3H

QC Sample Results

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

Method: 300.0 - Anions, Ion Chromatography

| Lab Sample ID: MB 880-43379/1-A | | | | | | | | | | | (| Client S | ample ID: | Method | Blank |
|----------------------------------|--------|---------|-----------|-------|------|--------|------|-------|-------|--------|-----|----------|-------------|-----------|---------|
| Matrix: Solid | | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 43414 | | | | | | | | | | | | | | | |
| | | MB N | ЛB | | | | | | | | | | | | |
| Analyte | R | esult C | Qualifier | | RL | | MDL | Unit | | D | Pre | epared | Analy | zed | Dil Fac |
| Chloride | ~ | <5.00 U | J | | 5.00 | | | mg/Kg | | | | | 01/06/23 | 13:58 | 1 |
| Lab Sample ID: LCS 880-43379/2-A | | | | | | | | | | Clie | nt | Sample | ID: Lab C | ontrol S | ample |
| Matrix: Solid | | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 43414 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qual | ifier | Unit | | 2 | %Rec | Limits | | |
| Chloride | | | | 250 | | 244.0 | | | mg/Kg | | | 98 | 90 - 110 | | |
| Lab Sample ID: LCSD 880-43379/3- | A | | | | | | | | Cli | ent Sa | m | ole ID: | Lab Contr | ol Sampl | e Dup |
| Matrix: Solid | | | | | | | | | | | | | | Type: S | |
| Analysis Batch: 43414 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCSI | C | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qual | ifier | Unit | | C | %Rec | Limits | RPD | Limit |
| Chloride | | | | 250 | | 245.1 | | | mg/Kg | | | 98 | 90 - 110 | 0 | 20 |
| Lab Sample ID: 890-3769-A-1-E MS | | | | | | | | | | | | Client | Sample I | D: Matrix | Spike |
| Matrix: Solid | | | | | | | | | | | | | Prep | Type: S | oluble |
| Analysis Batch: 43414 | | | | | | | | | | | | | | | |
| | Sample | Sample | e | Spike | | MS | MS | | | | | | %Rec | | |
| Analyte | Result | Qualifi | er | Added | | Result | Qual | ifier | Unit | 0 | D | %Rec | Limits | | |
| Chloride | <5.02 | U | | 251 | | 254.6 | | | mg/Kg | | | 101 | 90 - 110 | | |
| Lab Sample ID: 890-3769-A-1-F MS | D | | | | | | | | | Client | Sa | mple IC |): Matrix S | pike Dup | olicate |
| Matrix: Solid | | | | | | | | | | | | • | | Type: S | |
| Analysis Batch: 43414 | | | | | | | | | | | | | | | |
| - | Sample | Sample | e | Spike | | MSD | MSD | | | | | | %Rec | | RPD |
| Analyte | Result | Qualifi | er | Added | | Result | Qual | ifier | Unit | 0 | 5 | %Rec | Limits | RPD | Limit |
| | | U | | | | | | | | | | | | | |

Released to Imaging: 1/19/2024 9:23:32 AM

Received by OCD: 9/21/2023 10:31:59 AM

QC Association Summary

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

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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 |

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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 |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 00-3770-1 | 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 | |
| 0-3770-6 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 3 880-43343/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| S 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 |

Eurofins Carlsbad

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Client Sample ID: PH01 Date Collected: 01/04/23 13:10

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 | | | 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 | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| 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 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 | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| 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 14:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 43425 | 01/06/23 15:30 | SM | EET MID |

Eurofins Carlsbad

Matrix: Solid

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

Lab Sample ID: 890-3770-1

Matrix: Solid

Lab Sample ID: 890-3770-2

Lab Sample ID: 890-3770-3

Lab Sample ID: 890-3770-4

Matrix: Solid

Matrix: Solid

| | 3 |
|--|---|
| | |

Lab Chronicle

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

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 | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| 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

Lab Sample ID: 890-3770-5

| | 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 MIC |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 43343 | 01/06/23 08:58 | DM | EET MIC |
| 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 MIC |

Laboratory References:

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

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

Matrix: Solid

Job ID: 890-3770-1

SDG: 03A1987030

11 12 13 Laboratory: Eurofins Midland

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

| hority | | rogram | Identification Number | Expiration Date |
|---|-----------------------------------|---------------------------------|--|-------------------------|
| as | | ELAP | T104704400-22-25 | 06-30-23 |
| • • | • | ut the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for |
| the agency does not o | ter certification. | | | |
| the agency does not of Analysis Method | ter certification. Prep Method | Matrix | Analyte | |
| 0, | | Matrix Solid | Analyte Total TPH | |

Job ID: 890-3770-1

SDG: 03A1987030

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Eurofins Carlsbad

Method Summary

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

| Nethod | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 3021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| lotal BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 3015 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 |
| 3015NM Prep | Microextraction | SW846 | EET MID |
| OI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth | |
|---------------|------------------|--------|----------------|----------------|-------|-----|
| 890-3770-1 | PH01 | Solid | 01/04/23 13:10 | 01/05/23 10:30 | 0.5' | |
| 890-3770-2 | PH01 | Solid | 01/04/23 13:40 | 01/05/23 10:30 | 5' | |
| 890-3770-3 | PH01 | Solid | 01/04/23 14:10 | 01/05/23 10:30 | 10' | . 5 |
| 890-3770-4 | PH01 | Solid | 01/04/23 14:40 | 01/05/23 10:30 | 15' | J |
| 890-3770-5 | PH01 | Solid | 01/04/23 15:10 | 01/05/23 10:30 | 20' | |
| 890-3770-6 | PH01 | Solid | 01/04/23 15:40 | 01/05/23 10:30 | 21' | |
| | | | | | | |
| | | | | | | 8 |
| | | | | | | 9 |
| | | | | | | |
| | | | | | | |
| | | | | | | 12 |
| | | | | | | 13 |
| | | | | | | 4 |

| | Xenco | ICO | Xenco | | ELF | ^o aso, TX | ((915) 5 | 65-3443, Lu | EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 | | | | |
|---|---|-----------------------------------|---|--|--|----------------------|-----------------------------------|--|---|--|--|---|----------------------------|
| | | | | | Hob | bs, NM | (575) 39 | 12-7550, Ca | Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 | | www.xenco.com | | Page 1 of 1 |
| Project Manager Gilb | Gilbert Moreno | | | | Bill to: (if different) | ant) | Jim Raley | ley | | | Work O | Work Order Comments | |
| | Ensolum | | | 0 | Company Name | ne: | WPX | WPX Energy | | Progra | Program: UST/PST [] PRP Brownfields [] RRC [] | Brownfields 🗌 RR | RC Superfund |
| | 3122 National Parks HWY | arks HV | VY | | Address: | | 5315 | 5315 Buena Vista Dr | a Dr. | State c | State of Project: | 1 | |
| e ZIP: | Carlsbad, NM 88220 | 220 | | 0 | City, State ZIP: | | Carls | Carlsbad, NM 88220 | 1220 | Report | Reporting: Level II 🗌 Level III 🗍 PST/UST 🗍 TRRP 📙 | PST/UST TR | |
| | 832-541-7719 | | | Email: (| Email: gmoreno@Ensolum.com, | nsolur | n.com | | im.raley@dvn.com | Deliver | Deliverables: EDD | ADaPT Oth | Other: |
| Name. | Toro 22-3H | | | Turn | Turn Around | - | | | ANALYSIS | SIS REQUEST | | Prese | Preservative Codes |
| ň | 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 | lan | | TAT starts the | TAT starts the day received by | ~ | | | - | - | | HCL: HC | HNO3: HN |
| | 1061141201 | | | the lab, if rece | the lab, if received by 4:30pm | | | | | | | H ₂ SO ₄ : H ₂ | NaOH: Na |
| SAMPLE RECEIPT | Temp Blank: | nk: | Yes No | Wet Ice: | Mes No | eter | 0) | | | | | H ₃ PO ₄ : HP | |
| Samples Received Intact: | (Yes) No | | Thermometer ID: | | Inn D | ram | 300. | | | | | NaHSO4: NABIS | ABIS |
| Cooler Custody Seals: | Yes NO MA | | Correction Factor: | tor. | -2.2 | Pa | PA: | | 890-3770 C |) Chain of Custody | Y | Na ₂ S ₂ O ₃ : NaSO ₃ | 3SO3 |
| Sample Custody Seals: | Yes No | NIA | Temperature Reading | leading: | SP | I | 5 (El | | | | | Zn Acetate+NaOH: Zn | NaOH: Zn |
| Sample Identification | | Matrix | Date Time | | Depth Grab/ | 5/ # of | | PH (8015 | | | | Samp | Sample Comments |
| PH01 | | S | 1/4/2023 | _ | 0.5' Grab/ | b/ 1 | × | | | | | | |
| PH01 | | s | 1/4/2023 | | 5' Grab/ | b/ 1 | × | ×× | | | | | |
| PH01 | | S | 1/4/2023 | 14:10 | 10' Grab/ | Þ -1 | × | ×× | | | | 17 | Incident ID |
| PH01 | | S | 1/4/2023 | 14:40 | 15' Grab/ | b/ 1 | × | ×× | | | | лол | nOY1727952679 |
| PH01 | | S | 1/4/2023 | 15:10 | 20' Grab/ | <u>ه</u> | × | ×× | | | | | |
| PH01 | | S | 1/4/2023 | 15:40 | 21' Grab/ | b/ 1 | × | ×× | | | | | |
| | | | THE A | 01-04-1 | 2023 | - | - | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | - | | | | | | | |
| Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | 200.8 / 6020: fetal(s) to be an | 20: analyz | | 8RCRA 13PPM Texas TCLP / SPLP 6010: | M Texas 11 LP 6010: 8R | AIS | AS | Ba Be B \s Ba Be | Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn | Mo Pb | K Se / | Ag SiO ₂ Na Sr TI Sn U Hg: 1631/245.1/7470 / | 0 U V Zn 10 / 7471 |
| 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 service. Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be enforced unless previously negotiations and the sample sample submitted to Eurofine Xenco. A minimum charge of \$55.00 will be enforced unless previously negotiations and the sample sample sample sample sample submitted to Eurofine Xenco. But not analyzed. These terms will be enforced unless previously negotiations and the sample | nent and relinquis be liable only for charge of \$85.00 | hment of the cost will be a | samples constitution of samples and s polied to each property of the samples and s polied to each property of the samples and the samples are samples and the samples are sam | utes a valid purc hall not assume oject and a char | hase order from any responsibil ge of \$5 for each | ity for an | ompany t vy losses submitte | o Eurofins X or expenses ed to Eurofin | nco, its affiliates and subcor incurred by the client if such Xenco, but not analyzed. Th | ntractors. It assigns a losses are due to cir lese terms will be enf | tors. It assigns standard terms and conditions ses are due to circumstances beyond the control terms will be enforced unless previously negotiated | 15 rol vtiated. | |
| Relinquished by: (Signature) | gnature) | | Received | Received by: (Signature) | ule) | | Date | Date/Time | Relinquished by: (Signature) | : (Signature) | Received by: (Signature) | gnature) | Date/Time |
| 'Edyte Kenan : | HAH - | X | 5 | La X | fire | 1. | 5:0 | BIC | 30 | | | | |

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5 6

13

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 | |

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

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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").





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 147 of 208

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:

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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| | | Sample Sum | mai y | | |
|-----------------------|---------------|------------------|------------|----------|------------------|
| WPX Energy - Carlsbad | | Project Name: | Toro 22-3H | | Donostada |
| 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 |
| 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 | ampie D | ala | | | |
|--|---------------|------------|----------|----------|----------|---------------------|
| WPX Energy - Carlsbad | Project Name: | Toro | o 22-3H | | | |
| 5315 Buena Vista Dr | Project Numbe | er: 010 | 58-0007 | | | Reported: |
| Carlsbad NM, 88220 | Project Manag | ger: 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 | 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 | |
| Foluene | 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 | 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 | | 87.5 % | 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) | 51.9 | 50.0 | 2 | 07/06/23 | 07/07/23 | |
| Dil 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 | t: BA | | Batch: 2327028 |
| Chloride | 77.8 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | | | | | | |

Sample Data



Sample Data

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|--|---------------|------------|----------|----------|----------|---------------------|
| WPX Energy - Carlsbad | Project Name | : Toro | o 22-3H | | | |
| 5315 Buena Vista Dr | Project Numb | er: 010: | 58-0007 | | | Reported: |
| Carlsbad NM, 88220 | Project Manag | 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 | |
| oluene | 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 | |
| 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 | 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 | |
| Dil 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 | |
| | | | | | | |



Sample Data

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|--|---------------|------------|----------|----------|----------|---------------------|
| 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 2:57:54PM |
| | | PH02 18' | | | | |
| | | E307001-03 | | | | |
| | | 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 | |
| -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 | | 101 % | 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 | | 87.4 % | 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 | |
| Dil Range Organics (C28-C36) | ND | 50.0 | 1 | 07/06/23 | 07/08/23 | |
| urrogate: n-Nonane | | 85.1 % | 50-200 | 07/06/23 | 07/08/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | t: BA | | Batch: 2327028 |
| Chloride | 676 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | | | | | | |

QC Summary Data

| | | QU D | u | 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: | A | nna Byers | | | | | 7/10/2023 2:57:54PM |
| | | Volatile O | rganics k | 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 | | | |
| oluene | 4.91 | 0.0250 | 5.00 | | 98.2 | 70-130 | | | |
| p-Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| o,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 | | | |
| 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 | |
| p-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

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|--|--------|----------------------------------|----------------|-----------------------|-----------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager | :: A1 | nna Byers | | | | | 7/10/2023 2:57:54PM |
| | Nor | halogenated | 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

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|--|--------|----------------------------------|----------------|----------------------|-----------|---------------|-------------|--------------|---|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | 01 | ro 22-3H 058-0007 | | | | | Reported: 7/10/2023 2:57:54PM |
| Carlsbad NM, 88220 | | Project Manager: | Ai | nna Byers | | | | | //10/2023 2:57:54PM |
| | 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 | 07/06/23 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 | 07/06/23 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: | E306236-0 |)4 | Prepared: 0 | 07/06/23 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: | E306236-0 |)4 | Prepared: 0 | 07/06/23 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

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|--|-----------------|--|-------------------------|--------------------------------------|-----------|--------------------|--------------|-------------------|---|
| 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 2:57:54PM |
| | | Anions | by EPA | 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 % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 07 | 7/06/23 | Analyzed: 07/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 07 | 7/06/23 | Analyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247-0 | 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.



| _ | | | |
|---|-----------------------|-----------------------------|----------------|
| ſ | WPX Energy - Carlsbad | Project Name: Toro 22-3H | |
| I | 5315 Buena Vista Dr | Project Number: 01058-0007 | Reported: |
| l | Carlsbad NM, 88220 | Project Manager: Anna Byers | 07/10/23 14:57 |

| 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: M | PX Energy Pe | rmian IIC | | | 1.186 | Bill To | | 12.184d | | ाक | b Us | a Or | de sa | | 12 | | TA | т | | FDA D | rogram |
|-----------------|----------------------------------|----------------|----------------------|---------------|-------------------|---|--------------------------------|--|----------------------------|--------------|-------------|-------------|----------------|--------------|------------------|----------|------------|----------------|---------------|----------------|----------|
| | FA Lifergy Fel | | •• | | | tention: Jim Raley | | the second s | WO# | | | | Numl | | 1D | 2D | 3D | | ndard | CWA | SDWA |
| | Anager: Anna | a Buver | | | | dress: 5315 Buena Vista Dr. | | | 307 | | | | | 0007 | | | | | ay TAT | | |
| | 13000 W Cou | | 0 | | phy we have | ty, State, Zip: Carlsbad, NM, 882 | 20 | | | | | | | d Meth | | | | | n e di se si | | RCRA |
| | e, Zip_Odessa | | | | | ione: 575-885-7502 | | | à | | | | | | | Τ | | | ilentie anda | | |
| Phone: (5 | 575) 200-6754 | i | | | Er | nail: jim.raley@dvn.com | |] | l 8 | | | | | | | | | | | State | |
| | evon-team@e | | :om | | | O: EE.151032.01.ABD | | | Ŋ. | | 9 | 0 | 8 | | NZ | | ¥ | | NM CO | UT AZ | TX |
| Collected | by: Edyte Ko | nan | | | lin | cident ID: nOY1727952679 | | Ð | S | V 80 | 826 | 601 | e 30 | | | | | | | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample II | <u> </u> | | Lab Number | Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | | Remarks | |
| 8:00 | 6/30/2023 | S | 1 | | | PH02 | | 0.5' | | | | | | | X | | | | | | |
| 8:10 | 6/30/2023 | s | 1 | | | PH02 | 2 | 10' | | | | | | | X | | | | | | |
| 8:20 | 6/30/2023 | S | 1 | <u> </u> | | PH02 | 3 | 18' | | | | | | | X | | | | | | |
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| | | | | | | | u. <u>Maria</u> Instalation | | | | | | | | | | | | | | |
| | | | | _ | | | | | | | | | | | _ | | | | | | |
| | | ~- | l | <u> </u> | | | | | | | | | | | | | | | | | <u> </u> |
| | pler), attest to the | | authenticity | of this samp | le. I am aware ti | at tampering with or intentionally mislabelii | er the sample la | ocation | 1. | | | Sampl | es requi | ring therm | al preserv | vation m | nust be re | eceived | on ice the da | y they are san | pled or |
| •••••• | of collection is co | - | • | | | Sampled by: | | | • | | | receiv | ed pack | ed in ice at | an avg te | emp abo | ve O but | less tha | n 6 °C on sul | sequent days. | |
| Relinquishe | ed by: (Signature) |) | Date | | Time | Received by: (Signature) | Date | | Time | | | | | | | | se On | ly | | | |
| Edyte Konan | | | | 0/2023 | 14:20 | Michelle R Gonzales | 6-30-2 | 23 | 1 | 120 | · | Rec | eived | on ice | ୍ | 9/°N | l i | | | | |
| Relinquishe | ed by: (Signature) 16UE R GOP |) WIALDS | Date | | Time | Received by: (Signature) | Date | 72 | Time | 1~ | . | | | | | | | | | | |
| | ed by: (Signature) | | Date | <u>-30-23</u> | 1615 Time | Received by: (Signature) | Date | 5 | Time | <u>,</u> | | <u>T1</u> | 3.Tem | | - <u>12</u> 4 | | | | <u>13</u> | | |
| Comple Matu | ution F. Fail Ed. Sa | I'd Co _ Clude | | O- Otho | | | Containe | - Tvn | <u> </u> | lace | | | | | shar a | lace v | - VO | 1-725 St. A | Apart State | | 100 |
| | | ed 30 days af | fter results | are reporte | ed unless other | arrangements are made Hazardous sa this COC. The liability of the laboratory | mples will be | returr | ned to c | lient | or dis | pose | d of at | | | | | | the analy | sis of the a | ove |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| Client: | WPX Energy - Carlsbad Da | te Received: | 07/05/23 | 08:15 | Work Order ID: | E307001 |
|------------|--|----------------------|----------|---------------------|----------------|---------------|
| Phone: | (575) 200-6754 Da | te Logged In: | 07/05/23 | 09:01 | Logged In By: | Caitlin Mars |
| Email: | anna@etechenv.vom Du | e Date: | 07/11/23 | 17:00 (4 day TAT) | | |
| Chain o | f Custody (COC) | | | | | |
| 1. Does 1 | the sample ID match the COC? | | Yes | | | |
| 2. Does t | 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 th | 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 | | Comment | ts/Resolution |
| Sample ' | <u>Turn Around Time (TAT)</u> | | | | | |
| 6. Did th | e 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 th | he sample(s) received intact, i.e., not broken? | | Yes | | | |
| 10. Were | e custody/security seals present? | | No | | | |
| 11. If yes | s, were custody/security seals intact? | | NA | | | |
| 12. Was t | he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling | | Yes | | | |
| 13. If no | visible ice, record the temperature. Actual sample ten | nperature: <u>4°</u> | <u>C</u> | | | |
| Sample | Container | · _ | | | | |
| | aqueous VOC samples present? | | No | | | |
| | 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 | appropriate volume/weight or number of sample containers | collected? | Yes | | | |
| Field La | lbel | | | | | |
| 20. Were | e field sample labels filled out with the minimum information | ation: | | | | |
| S | Sample ID? | | Yes | | | |
| | Date/Time Collected? | | Yes | | | |
| | Collectors name? | | Yes | | | |
| | Preservation 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 | | | | | |
| | s the sample have more than one phase, i.e., multiphase? | | No | | | |
| | s, does the COC specify which phase(s) is to be analyzed | 1? | NA | | | |
| • | ract Laboratory | ** | INA | | | |
| | samples required to get sent to a subcontract laboratory? | | No | | | |
| | a subcontract laboratory specified by the client and if so | who? | NO | Subcontract Lab: NA | | |
| | | | | | | |

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



envirotech Inc.

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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,



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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 Tachnical Penrecentative/Client S

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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| * | | Sample Sum | | | |
|-----------------------|---------------|------------------|------------|----------|------------------|
| 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 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. |



| | 5 | ampie 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 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 | 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 | |
| Foluene | 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 | 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 | | 87.2 % | 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 | |
| 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 | st: BA | | Batch: 2327028 |
| Chloride | 254 | 20.0 | 1 | 07/06/23 | 07/07/23 | |
| | | | | | | |

Sample Data



QC Summary Data

| | | QU D | u | ing Dat | <i>c</i> u | | | | |
|--|--------|----------------------------------|-----------|------------------------|------------|--------|-------------|------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | 01 | oro 22-3H .058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | Aı | nna Byers | | | | | 7/10/2023 3:01:38PM |
| | | 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 At | 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 At | nalyzed: 07/05/23 |
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| thylbenzene | 4.75 | 0.0250 | 5.00 | | 95.0 | 70-130 | | | |
| oluene | 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 | | | |
| 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: | E306248-2 | 23 | Prepared: 0 | 7/05/23 At | 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 | | | |
| 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: | E306248-2 | 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

| | | QU D | ummu | i y Data | | | | | |
|--|--------|----------------------------------|----------------|----------------------|-----------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | 01 | ro 22-3H 058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager | : Ar | nna Byers | | | | | 7/10/2023 3:01:38PM |
| | Nor | 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 | nalyzed: 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

| | | $\mathbf{x} \in \mathbf{z}$ | | 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 3:01:38PM |
| | Nonha | alogenated Org | anics by | EPA 8015E |) - 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

| | | $\mathbf{x} \circ \sim$ | | | | | | | |
|--|-----------------|--|-------------------------|---------------------------------------|-----------|--------------------|--------------|-------------------|---|
| WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220 | | Project Name: Project Number: Project Manager: | 0 | foro 22-3H 1058-0007 Inna Byers | | | | | Reported: 7/10/2023 3:01:38PM |
| | | Anions | by EPA | 300.0/9056 | 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 % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 07 | 7/06/23 | Analyzed: 07/07/23 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 07 | 7/06/23 | Analyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247-0 | 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- | 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.



| _ | | Dennition | , unu 1 (otto | |
|---|-----------------------|------------------|---------------|----------------|
| 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 15:01 |

| ND Analyte NOT DETECTED at or above the reportir | g 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.



| 8:30 | 6/30/2023 | S | 1 | | <u>`</u> | PH02 | | 21' | | | | | | | X | | | - | | | |
|--------------------|--|--------|---------------------|--------------|-------------------------|--|-----------------|--------|----------------------------|--------------|-------------|-------------|----------------|----------------------------------|-------------|------|------|---|-------------|---------------|-----------|
| 8:30 | 6/30/2023 | S | 1 | | | PH02 | Number, | | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | X BGDOC | | GDOC | | | | |
| | | | | | | | | | | | | | | | | | | | | | _ |
| | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | <u></u> | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |
| ddition | al Instruction | s: | | | | · · | | | L | | | | 4 | / | J | | | | | | |
| | | | | | | at tampering with or intentionally mislabellin | g the sample ic | cation | , | | • | - | - | iring thermal ed in ice at an | | | | | | | |
| | of collection is con ed by: (Signature) | | d and may b Date | e grounds fo | r legal action. Time | Sampled by: Received by: (Signature) | Date | | Time | | | | cu pack | | - | | e On | | | sequent days. | |
| date Konan | | | |)/2023 | 14:20 | Michelle R Gonzales | 6-30-2 | | | 20 | | Rec | eived | l on ice: | G | 7/ N | | | | | |
| elinquishe Mick | ed by: (Signature) Helle R GO | nzales | Date | 30-23 | Time 1615 | Reesived by Signature | Date 7/5/2 | 3 | Time | 'ς | - | T 1 | | | TO | | 1 | | ГЗ } | | |
| | ed by: (Signature) | | Date | | Time | Received by: (Signature) | Date | | Time | - | | <u>, 1</u> | | | - <u>16</u> | | | | | | |
| | | | | | | | Containe | | | | | AVC | Ten | np°C | | 2.5 | | | | | a there a |

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

| 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 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 t | he COC | Yes | | | | |
| 3. Were s | samples dropped off by client or carrier? | | Yes | Carrier: C | ourier | | |
| 4. Was tł | ne COC complete, i.e., signatures, dates/times, requested | analyses? | Yes | _ | | | |
| 5. Were a | 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 |
| Samnla' | Turn Around Time (TAT) | | | Γ | | | |
| | e COC indicate standard TAT, or Expedited TAT? | | Yes | | | | |
| Sample | · • | | 1.00 | | | | |
| - | sample cooler received? | | Yes | | | | |
| | was cooler received in good condition? | | Yes | | | | |
| - | ne sample(s) received intact, i.e., not broken? | | Yes | | | | |
| | e custody/security seals present? | | No | | | | |
| | s, 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 reco minutes of sampling | | Yes | | | | |
| 13 If no | visible ice, record the temperature. Actual sample tem | nerature: 4º | C | | | | |
| | Container | perature. <u>1</u> | <u> </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? | | Yes | | | | |
| 19. Is the | appropriate volume/weight or number of sample containers | collected? | Yes | | | | |
| Field La | ibel | | | | | | |
| 20. Were | e field sample labels filled out with the minimum informa | tion: | | | | | |
| | Sample ID? | | Yes | | | | |
| | Date/Time Collected? | | Yes | L | | | |
| | Collectors name? | | Yes | | | | |
| _ | <u>Preservation</u> s the COC or field labels indicate the samples were preser | ved? | No | | | | |
| | sample(s) correctly preserved? | | NA | | | | |
| | b filteration required and/or requested for dissolved metal | s? | No | | | | |
| | ase Sample Matrix | | 110 | | | | |
| - | the sample have more than one phase, i.e., multiphase? | | No | | | | |
| | s, does the COC specify which phase(s) is to be analyzed | ? | NA | | | | |
| - | | | 11/1 | | | | |
| | ract Laboratory samples required to get sent to a subcontract laboratory? | | NT | | | | |
| | samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so | vho? | No NA | Cube on the st T 1 | NIA | | |
| 27. Was | a subcontract laboratory specified by the chefit and it so | W1101 | INA | Subcontract Lab | INA | | |



Date

envirotech Inc.

Released to Imaging: 1/19/2024 9:23:32 AM





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: 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 173 of 208

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)

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Sample Summary

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| | | Sample Sum | mai y | | |
|-----------------------|---------------|------------------|------------|----------|------------------|
| WPX Energy - Carlsbad | | Project Name: | Toro 22-3H | | Demontodi |
| 5315 Buena Vista Dr | | Project Number: | 01058-0007 | | 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 | imple D | ala | | | | |
|--|---------------|------------|----------|----------|----------|---------------------|--|
| WPX Energy - Carlsbad | Project Name: | Toro | 22-3H | | | | |
| 5315 Buena Vista Dr | Project Numbe | er: 0103 | 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 | 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 | | |
| 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 | 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 | | 86.9 % | 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) | 161 | 50.0 | 2 | 07/06/23 | 07/08/23 | | |
| Oil 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 | t: 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: 0103 | 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 | vst: 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 | vst: 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 | vst: 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 | | 90.4 % | 50-200 | 07/06/23 | 07/08/23 | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analy | yst: BA | | Batch: 2327028 | |
| Chloride | 975 | 20.0 | 1 | 07/06/23 | 07/07/23 | | |

| | 6 | ample D | ala | | | | |
|--|---------------|------------|----------|----------|-----------|---------------------|--|
| WPX Energy - Carlsbad | Project Name | : Toro | 22-3H | | | | |
| 5315 Buena Vista Dr | Project Numb | er: 0103 | 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 | 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 | | 101 % | 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 | | 87.9 % | 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) | 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 | Analys | st: BA | | Batch: 2327028 | |
| Chloride | 802 | 20.0 | 1 | 07/06/23 | 07/07/23 | | |



QC Summary Data

| | | QC D | umma | ii y Dat | 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 2:59:30PM |
| , | | Volatile O | | 2 | 21B | | | | Analyst: IY |
| | | | | - | | | | | 7 mary 5t. 1 1 |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | | | | | | | | | N T (|
| | 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 | | | |
| p-Xylene | 4.89 | 0.0250 | 5.00 | | 97.8 | 70-130 | | | |
| o,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: | E306248-2 | 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 | | | |
| 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) | | | | Source: | E306248-2 | 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 | |
| Foluene | 5.00 | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| p-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p,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

| | | QU D | u | ing Date | | | | | |
|--|--------|----------------------------------|----------------|------------------------|-----------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H .058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | Aı | nna Byers | | | | | 7/10/2023 2:59:30PM |
| | Nor | nhalogenated C | 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 At | 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 At | 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 | nalyzed: 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

| | | $\mathbf{x} \in \mathbf{v}$ | •••••• | | | | | | |
|--|-----------------|--|-------------------------|-------------------------------------|-----------|--------------------|--------------|-------------------|---|
| 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 2:59:30PM |
| | | Anions | by EPA 3 | 300.0/9056 | 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 % | Notes |
| Blank (2327028-BLK1) | | | | | | | Prepared: 07 | 7/06/23 A | Analyzed: 07/07/23 |
| Chloride LCS (2327028-BS1) | ND | 20.0 | | | | | Prepared: 07 | 7/06/23 4 | Analyzed: 07/07/23 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | 1 | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247-0 | 01 | Prepared: 07 | 7/06/23 A | Analyzed: 07/07/23 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | |
| Matrix Spike Dup (2327028-MSD1) | | | | Source: | E306247- | 01 | Prepared: 07 | 7/06/23 A | 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 chinerons | unu 1 (0005 | |
|---|-----------------------|------------------|-------------|----------------|
| Γ | WPX Energy - Carlsbad | Project Name: | Того 22-3Н | |
| | 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 reportir | g limit |
|--|---------|
|--|---------|

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



| Project Ir | nformation | | | | | Chain | of Custody | | | | | | | | | | | | | Page 1 |
|--------------------------|--|----------------|----------------------|----------------|----------------|--|--|----------|----------------------------|--------------|--------------|--------------|----------------|----------------|--|---------------------------|-------|---|---|---|
| Client: M | VPX Energy Pe | rmian II (| r | | 1000 C | Bill To | | | | | ab Us | - () | alvisio | alinia interio | <u> </u> | | TA | т | FPA | Program |
| | Toro 22-3H | | . . | | | ention: Jim Raley | | 1 | WO | | | | Numt | nêr | 1D | 20 | 3D | Standard | | SDWA |
| - | Manager: Anna | a Buver | | | | dress: 5315 Buena Vista Dr. | | | 307 | 002 | 2 | n. | 51- | 2007 | 10 | | | 5 day TAT | | |
| | : 13000 W Cou | - | 00 | | | , State, Zip: Carlsbad, NM, 8822 | 0 | | | | | | | d Metho | d | | | | | RCRA |
| | te, Zip_Odessa | | | | | one: 575-885-7502 | | <u> </u> | l≽ | | | | | | Ť | | | | | |
| | 575) 200-6754 | | | | | ail: jim.raley@dvn.com | | 1 | ² | | | | | | | | | <u> 1997 - 1995</u> - | State | |
| | evon-team@e | | com | | |): EE.151032.01.ABD | | | ٥/٥ | | | | | | 5 | | | NM C | | 7 7 7 |
| | d by: Edyte Ko | | com | | | ident ID: nOY1727952679 | | _ | /DR(| 021 | 20 | 2 | <u>ğ</u> | | ΝN | | ¥ | | | |
| Time | | | — | | | dent 10. no11/2/9520/9 | Ish | 별 | ŝRO | ¶ A | <u>8</u> | 15 6(| - el | | К | | υ | | | |
| Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | | | Lab Number | Depti | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | Remark | is . |
| 8:40 | 6/30/2023 | S | 1 | | | рноз | 1 | 0.5' | | | | | | | x | | | | | |
| 8:50 | 6/30/2023 | S | 1 | | | рноз | 2 | 10' | | | | | | | x | | | | | |
| 9:00 | 6/30/2023 | S | 1 | | | PH03 | 3 | 18' | | | | | | | x | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | aller - aller b | | | | | | | | | | | | | |
| | | | | 1 | | | | | | | | | | | | | | | | |
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| | | | | | 7 | • | And the second s | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | al Instruction | | | | | | | | | | • | | | | | | | | | |
| | pler), attest to the e of collection is cor | | | | • | tampering with or intentionally mislabellin Sampled by: | g the sample io | cation | 1, | | | | | | | | | eceived on ice the less than 6 °C on s | | |
| elinquishe | ed by: (Signature) | | Dat | | me | Received by: (Signature) | Date | | Time | | | i s | | | <u> </u> | ab U | ie On | lý - | | |
| dyte Konan Alinguishe | ed by: (Signature) | | 06/ Dat | · | 4:20 me | Michelle R Gonzales | 6-30-2 | 23 | | 420 | | Rec | eived | on ice: | C |) n | | المراجع المراجع المراجع المراجع المراجع المراجع المراجع | | |
| Mich | ee by: (signature) lelle R Goh | izales | | -30-23 | | auth Man | 7/5/2 | 3 | Time | ' <u>15</u> | - | T1 . | | | <u>T2</u> | د د د کشتن د د کشتن | | <u>T3</u> | | |
| elinquishe | ed bγ: (Signature) | | Dat | e Tii | me | Received by: (Signature) | Date | | Time | | | AVC | i Tem | D°C | 4 | | | | | |
| ample Mat | trix: S - Soil, Sd - Sol | id, Sg - Slude | re, A - Aque | ous, O - Other | | <u>. </u> | Containe | r Tvp | e: g - 4 | glass | p - r | 1.4.4 | | | per gl | ass. v | - VO4 | <u></u> | <u>مورد مربع مربع مربع مربع مربع مربع مربع مربع</u> | e tota este en la |
| | | | | | nless other an | rangements are made. Hazardous san | | | | | | | | _ | | | | | ysis of the a | bove |
| | | | | | | is COC. The liability of the laboratory is | | | | | | | | | | " | | | , | |
| | | | | | | | _ | | _ | | (| | 8 | e |) | יר | V | irc | ote | eC |

Envirotech Analytical Laboratory

| | | | j | | | 1 111100. 115/2025 10.42.50/101 |
|------------------|---|---------------------|--------------|---------------------------------|----------------|---------------------------------|
| structions | Please take note of any NO checkmarks. | Sample | Receipt | Checklist (SRC) | | |
| we receive | 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 D | ate Received: | 07/05/23 | 08:15 | Work Order ID: | E307002 |
| Phone: | (575) 200-6754 D | ate Logged In: | 07/05/23 | 09:08 | Logged In By: | Caitlin Mars |
| Email: | anna@etechenv.vom D | ue 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, requested | l 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. | e field, | Yes | | Commen | ts/Resolution |
| Sample 7 | 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 | | | |
| | , 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 ter | ceived w/i 15 | Yes | | | |
| | | nperature. <u>1</u> | <u> </u> | | | |
| | <u>Container</u> 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 containers | collected? | Yes | | | |
| Field La | | , concetted. | 105 | | | |
| 20. Were | field sample labels filled out with the minimum inform ample ID? | ation: | Yes | | | |
| | Date/Time Collected? | | Yes | | | |
| _ | Collectors name? | | Yes | | | |
| Sample 1 | Preservation | | | | | |
| 21. Does | the COC or field labels indicate the samples were press | erved? | No | | | |
| 22. Are s | ample(s) correctly preserved? | | NA | | | |
| 24. Is lab | filteration required and/or requested for dissolved meta | als? | No | | | |
| <u>Multiph</u> | ase Sample Matrix | | | | | |
| 26. Does | the sample have more than one phase, i.e., multiphase? | | No | | | |
| 27. If yes | s, does the COC specify which phase(s) is to be analyze | d? | NA | | | |
| <u>Subcont</u> | ract Laboratory | | | | | |
| 28. Are s | amples required to get sent to a subcontract laboratory? | | No | | | |
| 29. Was a | a subcontract laboratory specified by the client and if so | who? | NA | Subcontract Lab: NA | | |
| <u>Clien</u> t I | nstruction | | | | | |

<u>Client Instruction</u>

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



envirotech Inc.





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 187 of 208

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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| | | Sample Sum | mary | | Ŭ |
|-----------------------|---------------|------------------|------------|----------|----------------|
| 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 |
| | | | | | |



| | De | ampie 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 | er: 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 | |
| o-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

| | | X U N | u | ing Date | A | | | | |
|--|--------------|----------------------------------|------------------|------------------------|--------------|------------------|--------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 1058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | A | nna Byers | | | | | 7/10/2023 3:03:33PM |
| | | Volatile O | rganics k | 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 | | | | | - | | · · |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| p-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 8.37 | 0.0250 | 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: | E306248-2 | 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 | | | |
| 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) | | | | Source: | E306248-2 | 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 | |
| | | 0.0250 | 5.00 | 0.0757 | 98.4 | 61-130 | 3.11 | 20 | |
| Toluene | 5.00 | | | | | | | | |
| | 5.00 4.96 | | 5.00 | ND | 99.1 | 63-131 | 3.22 | 20 | |
| p-Xylene | | 0.0250 | 5.00 10.0 | ND 0.0702 | 99.1 98.8 | 63-131 63-131 | 3.22 3.19 | 20 20 | |
| | 4.96 | | | | | | | | |



QC Summary Data

| | | $\mathbf{v} \mathbf{v} \mathbf{v}$ | u | ing Date | | | | | |
|--|--------|------------------------------------|----------------|-----------------------|-----------|---------------|-------------|--------------|---------------------|
| 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

| | | QC DI | u 111111 a | ing Date | | | | | |
|--|--------|----------------------------------|----------------|-----------------------|----------|---------------|-------------|--------------|---------------------|
| WPX Energy - Carlsbad 5315 Buena Vista Dr | | Project Name: Project Number: | | oro 22-3H 058-0007 | | | | | Reported: |
| Carlsbad NM, 88220 | | Project Manager: | Aı | nna Byers | | | | | 7/10/2023 3:03:33PM |
| | 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 | nalyzed: 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 | nalyzed: 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 | nalyzed: 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

| | | $\mathbf{x} \in \mathbf{z}$ | | ar y 2 au | | | | | | |
|--|-----------------|--|-------------------------|---------------------------------------|-----------|--------------------|-------------|-------------------|---------------------------------------|-----|
| 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 3:03:33 | 3PM |
| | | Anions | by EPA | 300.0/90564 | 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 | Analyzed: 07/07/23 | 3 |
| Chloride | ND | 20.0 | | | | | | | | |
| LCS (2327028-BS1) | | | | | | | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 | 3 |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | | |
| Matrix Spike (2327028-MS1) | | | | Source: | E306247-(|)1 | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 | 3 |
| Chloride | 277 | 20.0 | 250 | 28.9 | 99.3 | 80-120 | | | | |
| Matrix Spike Dup (2327028-MSD1) | | | | Source: | E306247-(|)1 | Prepared: 0 | 7/06/23 A | Analyzed: 07/07/23 | 3 |
| 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 |

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project: Toro 22-3H

Phone: (575) 200-6754

Time

Sampled

9:10

Collected by: Edyte Konan

Sunsmu

C

3.80

AM

Client: WPX Energy Permian LLC.

Email: Devon-team@etechenv.com

Date Sampled

6/30/2023

No. of

Containers

1

Matrix

S

Sample ID

Project Manager: Anna Buyer Address: 13000 W County Rd 100 City, State, Zip_Odessa,TX, 79765

| | | R |
|------|---|-----|
| Page | 1 | 021 |

| Bill To | | | | تا | ab U | se On | ly | | 2 | | TA | ١ <u>Τ</u> | _ | EPA Pi | rogram |
|-----------------------------------|---------------------------------------|------------|----------------------------|--------------|-------------|-------------|----------------|----------|-------|----------|------|------------|---------|---------|--------|
| ttention: Jim Raley | · · · · · · · · · · · · · · · · · · · | Lab | WO | | | Job | Num | ber | 1D | 2D | 3D | St | andard | CWA | SDWA |
| ddress: 5315 Buena Vista Dr. | | E | 30 | B | H | OC | 53 | 60007 | | | | 5 (| day TAT | | |
| ity, State, Zip: Carlsbad, NM, 88 | 3220 | | | | | Analy | rsis aı | nd Metho | d | | | | | | RCRA |
| 10ne: 575-885-7502 | | | β | | | | | | | | | | | | |
| mail: jim.raley@dvn.com | | | ORO DRO | | | | | | | | | | | State | |
| /O: EE.151032.01.ABD | | | ŘŐ | 1 | • | | 0.0 | | Σ | | ¥ | | NM CO | UT AZ | ТХ |
| cident ID: nOY1727952679 | | 2 | 0/0 | / 80 | 826 | 601 | e 30 | | | | | | | | |
| | Lab Number | Depth(ft.) | TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | | BGDOC | | GDOC | | | Remarks | |
| PH03 | | 21' | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |

Z

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware date or time of collection is considered fraud and may be grounds for legal action. Date Time Relinquished by: (Signature) 06/30/2023 14:20 Edyte Konan Relinguished by: (Signature) MICHELLE R GONZALES Date Time 6-30-23 1615 Relinquished by: (Signature) Date Time Received by: (Signature) Date Time 4 AVG Temp °C Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

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: | anna@etechenv.vom Du | e Date: | 07/11/23 | 17:00 (4 day TAT) | | |
| Chain of | f 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 | samples dropped off by client or carrier? | | Yes | Carrier: Courier | | |
| 4. Was th | ne COC complete, i.e., signatures, dates/times, requested | analyses? | Yes | | | |
| 5. Were a | 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 | e 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 th | he sample(s) received intact, i.e., not broken? | | Yes | | | |
| 10. Were | custody/security seals present? | | No | | | |
| 11. If yes | s, were custody/security seals intact? | | NA | | | |
| 12. Was t | he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling | | Yes | | | |
| 13. If no | visible ice, record the temperature. Actual sample ten | nperature: 4° | С | | | |
| | <u>Container</u> | I | | | | |
| | aqueous VOC samples present? | | No | | | |
| | VOC 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 | | | |
| | non-VOC samples collected in the correct containers? | | Yes | | | |
| | appropriate volume/weight or number of sample containers | collected? | Yes | | | |
| Field La | <u>bel</u> | | | | | |
| 20. Were | field sample labels filled out with the minimum information | ation: | | | | |
| | Sample ID? | | Yes | | | |
| | Date/Time Collected? Collectors name? | | Yes | L | | |
| | Preservation | | Yes | | | |
| - | 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 | | | |
| - | the sample have more than one phase, i.e., multiphase? | | No | | | |
| | s, does the COC specify which phase(s) is to be analyzed | 12 | NO NA | | | |
| - | | ** | INA | | | |
| | ract Laboratory_ samples required to get sent to a subcontract laboratory? | | No | | | |
| | a subcontract laboratory specified by the client and if so | who? | NO | Subcontract Lab: NA | | |
| LJ. Was | a subcontract faboratory specified by the chefit and it so | wito: | 1177 | 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,



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

Erick Herrera

| From: | 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) |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|-------------------|
| nvelez | None | 7/31/2023 |

Action 244562

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

| WPX Energy Permian, LLC 246289 Devon Energy - Regulatory Action Number: Oklahoma City, OK 73102 267740 | Operator: | OGRID: |
|--|---------------------------|---|
| | WPX Energy Permian, LLC | 246289 |
| Oklahoma City, OK 73102 267740 | Devon Energy - Regulatory | Action Number: |
| | Oklahoma City, OK 73102 | 267740 |
| Action Type: | | Action Type: |
| [C-141] Release Corrective Action (C-141) | | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | | Condition Date |
|---------------|------|-------------------|
| nvelez | None | 1/19/2024 |

Page 208 of 208

Action 267740