Received by OCD: 5/3/2023 7:44:29 AM State of New Mexico
Page 3 Oil Conservation Division

| | Page 1 of 92 |
|----------------|--------------|
| Incident ID | |
| 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? | (ft bgs) |
|--|-----------------------|
| 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil |
| 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 well Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps □ Laboratory data including chain of custody | ls. |

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.

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| | Page 2 of | 92 |
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| Incident ID | | İ |
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| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|--|
| Printed Name: | _ Title: |
| Signature: Thile | Date: _5-3-23 |
| email: | Telephone: |
| | |
| OCD Only | |
| Received by: Jocelyn Harimon | Date:05/03/2023 |
| | |

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| Incident ID | |
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| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

| Closure Report Attachment Checklist: Each of the following is | 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 | |
| | |
| may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O | ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. |
| Printed Name: | Title: |
| Signature: Thile | Date: _5-3-23 |
| Printed Name: Signature: Email: | Telephone: |
| | |
| OCD Only | |
| Received by: Jocelyn Harimon | Date:05/03/2023 |
| | 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: | Date: 05/03/2023 |
| Printed Name: Ashley Maxwell | Title: Environmental Specialist |



TGO GF KCVKQP 'UWO O CT['CPF"

UQKN'ENQUWTG'TGS WGUV

 $Ej~gxt~qp'Eqt~r~qt~cvlqp''\\S~wc~kiS~wggp'Wpls''^224''\\Ngc'Eqwpv{~.'P~gy~'O~gzleq''}\\Wpls'Ngwgt~'\delta L\"o.'Ugevlqp'33.'Vqy~puj~kr'3; 'Uqwvj~.'Tcpi~g'56'Gcus''\\Nc~vlswf~g'54088; 3: 5^q'P~qt~yj~.'Nqpi~lswf~g'325074; 346^q'Y~gus''\\PO~QEF~'T~glgt~gpeg''%'pQ[~3: 232578; 4''$

Prepared For:

Ej gxt qp'Eqt r qt c vkqp'' 6301 Deauville Blvd. Midland, TX 79706

Prepared By:

Gwej 'Gpxk qpo gpwrl('Uchgw 'Uqnwkqpu 'Kpe0' P.O. Box 62228

Midland, Texas 79711

Crth/49.'4245"

Blake Estep Project Manager

"

• •

VCDNG'QH'EQPVGPVU''

| INTRODUCTION | 1 |
|--|---|
| NMOCD SITE CLASSIFICATION | 1 |
| INITIAL SITE ASSESSMENT | 2 |
| DELINEATION, REMEDIATION, AND SOIL SAMPLING ACTIVITIES | 2 |
| SOIL DISPOSAL AND BACKFILL ACTIVITIES | 2 |
| SOIL CLOSURE REQUEST | 3 |
| LIMITATIONS | 3 |
| DISTRIBUTION | 4 |
| | |

HK WTGU'

Figure 1 – Site Location Topographic Map

Figure 2 – Aerial Proximity Map

Figure 3 – USGS Well Proximity Map

Figure 4 – Site Sample Location Map

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VCDNGU'

Table 1 – Concentrations of Benzene, BTEX, TPH and Chloride in Soil

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Appendix A – Release Notification and Corrective Action (Form C-141)

Appendix B – Depth to Groundwater Information

Appendix C – Photographic Documentation

Appendix D – Laboratory Analytical Reports

KPVTQFWEVKQP'''

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron Corporation, has prepared this *Remediation Summary and Soil Closure Request* for the release site known as Quail Queen Unit #002 henceforth, "Release Site". The legal description of the Release Site is Unit Letter "J", Section 11, Township 19 South, Range 34 East, in Lea County, New Mexico. The subject release is located on Bureau of Land Management property. The Release Site GPS coordinates are 32.669183° North and 103.529124° West. A "Topographic Map" is provided as Figure 1.

On December 27, 2017, Chevron Corporation discovered a release at the Quail Queen #002 location. A flowline ruptured, causing the release of approximately thirty-five (35) barrels of produced water and one (1) barrel of crude oil. The release was limited to the caliche production pad within the secondary containment of the production equipment. A copy of the New Mexico Oil Conservation Division (NMOCD) Release Notification and Corrective Action (Form C-141) is provided as Appendix A.

Photographic documentation for the Release Site is provided as Appendix C.

PO QEF'UKVG'ENCUUKHKECVKQP"

Searches of the groundwater databases maintained by United States Geological Survey (USGS) and New Mexico Office of the State Engineer (NMOSE) identified that there are no freshwater wells within a half mile radius of the Release Site. The closest freshwater well (USGS Well # 324016103301701) is approximately 1.39 miles to the east-northeast. The USGS database indicated groundwater should be encountered at approximately seventy-four (74) feet below ground surface (bgs). In addition, the NMOSE dastabase identifies two (2) wells located less than a mile from the Release Site. The two (2) water wells (L04723 & L04059) are located approximately 0.98 miles northwest and 0.92 miles northeast, with groundwater encountered at 123 feet bgs and 60 feet bgs, respectively.

Based on a search of the NMOCD Imaging System, on October 18, 2005, Environmental Plus, Inc., conducted a site characterization assessment for NMOCD incident (#nPAC0606153274). The assessment consisted of two (2) soil borings to approximate depths of forty-five (45) and sixty-five (65) feet bgs. No ground water was encountered in either of the soil borings (refer to Appendix B).

No surface water or water wells were observed within one thousand (1,000) feet of the Release Site.

The Release Site is considered to be in an area of low potential for karst occurrence. An "Aerial Proximity Map and USGS Well Proximity Map" are provided as Figure 2 and Figure 3, respectively. Depth to groundwater information is provided in Appendix B.

Based on the NMOCD site classification system, the following soil remediation levels were assigned to the release site as a result of this criteria:

- Benzene 10 mg/kg
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) 50 mg/kg
- Gas Range Organics + Diesel Range Organics (GRO+DRO) 1,000 mg/kg
- Total Petroleum Hydrocarbons (TPH) 2,500 mg/kg
- Chloride 10,000 mg/kg

IP KVICN'UKVG'CUUGUUO GP V'''

On April 6, 2022, Etech conducted a sampling event at the Release Site to assess the impact from the release. Two (2) soil auger holes were installed with samples collected at six (6) inch and fifteen (15) inch intervals bgs, at which depth refusal was encountered (refer to Figure 3). Samples were submitted to Xenco Eurofins to be analyzed for TPH, chloride, and BTEX concentrations. A "Site Sample Location Map" is provided as Figure 3.

Laboratory results indicated elevated DRO concentrations in the area associated with Auger Hole 1, all other areas and constituents were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards (refer to Table 1).

Laboratory analytical reports are provided in Appendix D.

FGNIPGCVKQP.'TGOGFICVKQP.'CPF'UQKN'UCORNIPI'CEVKXKVGU''

On December 1 & 2, 2022, Etech conducted delineation and remediation activities at the release site utilizing a mini-excavator, backhoe, and manual means. Based on field chloride testing, the site was excavated to dimensions of 22 feet in width, 26 feet in length, and a depth of 12 inches bgs. Impacted soils were stockpiled on plastic at the site awaiting final disposition to an approved NMOCD surface waste facility.

On December 1, 2022, three (3) composite bottom hole (Bottom Hole 1 through Bottom Hole 3) and four (4) composite wall (North Sidewall, East Sidewall, South Sidewall, and West Sidewall) samples were collected from the excavated area, representing no more than 200 square feet. Five-point composite confirmation soil samples were labeled, placed into a laboratory provided container, stored on ice, and transported under proper chain-of-custody documentation to Permian Basin Environmental Laboratory (PBELAB) in Midland, Texas.

The soil samples were analyzed for TPH utilizing Method SW 846-8015M, BTEX utilizing Method SW 846-8021B, and chloride utilizing EPA Method 300.0. Laboratory analytical results indicated an elevated TPH concentration in soil samples Bottom Hole 3 and East Sidewall.

On January 3, 2023, Etech further excavated the areas exceeding NMOCD standards for TPH concentrations. Impacted soils were stockpiled on plastic at the site awaiting final disposition to an approved NMOCD facility.

On January 3, 2023, one (1) composite bottom hole (Bottom Hole 3A) and one (1) composite wall (East Sidewall A) samples were collected from the excavated area and submitted to PBELAB for confirmatory analysis of TPH, BTEX, and chloride utilizing the laboratory analytical methods previously described. Laboratory analytical results indicated TPH, BTEX, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples.

See Figure 4 Site Sample Location Map for sample locations. See Appendix C for photos depicting remediation and backfill activities. See Table 1 Concentrations of Benzene, BTEX, TPH, and Chloride in Soil for sampling results and Appendix D for laboratory analytical reports.

UQKN'FKURQUCN'CPF'DCEMHKNN'CEVKXKVKGU'

On February 16, 2023, Etech transported the impacted soil to Lea Land disposal facility (NMOCD permit #WM-01-035) in Lea County, New Mexico. Etech transported like-sourced, non-impacted material to the Release Site to be used as backfill material. Utilizing a backhoe, the excavation was backfilled, compacted, and contoured to fit the needs of the facility.

UKVG'ENQUWTG'TGS WGUV''

Laboratory analytical results indicate BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples. Etech, on behalf of Chevron Corporation, respectfully requests the NMOCD grant site closure to the Quail Queen Unit #002 (NMOCD Incident ID: nOY1801035692).

NKO KVCVKQPU'

Etech has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Chevron Corporation. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Chevron Corporation.

FKVTKDWKQP"

Copy 1: New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

506 West Texas

Artesia, New Mexico 88210

Copy 2: Amy Barnhill

Chevron Corporation 6301 Deauville Blvd. Midland, Texas 79706

Copy 3: Etech Environmental & Safety Solutions, Inc.

P.O. Box 62228

Midland, Texas 79711

FIGURES

Site Location

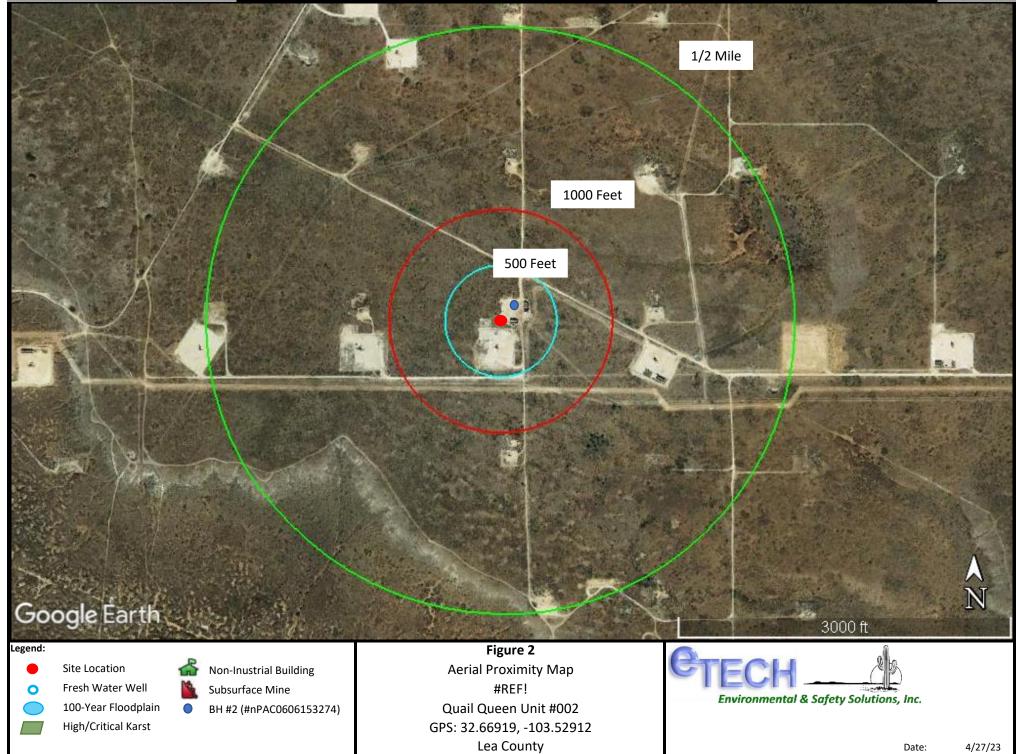
Site Location Topographic Map Chevron Corporation Quail Queen Unit #002 GPS: 32.66919, -103.52912

Lea County

Environmental & Safety Solutions, Inc.

Date:

4/29/22





Site Location

USGS Water Well

USGS Well Proximity Map Chevron Corporation Quail Queen Unit #002 GPS: 32.66919, -103.52912 Lea County



Date:

4/29/22



TABLES

VCDNG'3

 ${\bf EQPEGPVTCVKQPUQHDGP\backslash GPG.'DVGZ.'VRJ'CPF'EJNQTKFG'KP'UQKN}$

EJ GXTQP'EQTRQTCVKQP

S wckiS wggp'Wpk'%224 NGC'EQWPV[.'PGY 'O GZNEQ

| | | ********* | TIGO PALON | | | O GVJ | QFUX'UY '! 68 | 8/: 243D | | | | OG | VJ QF <uy '!="" 2370<="" th=""><th>•</th><th></th><th>G'52202</th></uy> | • | | G'52202 |
|----------------------|---------|-----------------|--------------------|---------------|---------|----------------------|------------------------|-------------------|----------------------|----------------|---|--|---|---|--|----------------|
| UCO RNG'NQECVKQP | FGRVJ | UQIN" UVCVWU | UCO RNG'' F CVG | DGP\ GPG | VQNWGPG | GVJ [N/ DGP\ GPG | o .'t'''' Z[NGPGU' | q',''' Z[NGPG | VQVCN'' Z[NGP GU | VQVCN" DVGZ | I TQ'''''' E ₈ /E ₃₄ | FTQ''''''' E ₃₄ /E _{4:} | I TQ- FTQ'''' E ₈ /E _{4:} | QTQ'''''' E _{4:} /E ₅₇ | VRJ ''''''' E ₈ /E ₅₇ | EJ NQTIFO |
| PO QEF 'Enquotg'Etke | gtkc | | | 32'b i lni '' | | | | | | 72'b i lmi | | | 3.222'6 i lmi | | 4.722'b i lmi | 32.222'ò i Ini |
| Cwi gt 'J qng'3 | 2/8\$ | Gzecxcvgf | 4/6/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 1,950 | 3.; 72 | ND | 1,950 | 83.4 |
| Cwi gt 'J qng'3'' | 34/37\$ | Gzecxcvgf | 4/6/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 1,450 | 3.672 | ND | 1,450 | 305 |
| Cwi gt 'J qng'4 | 2/8\$ | Gzecxcvgf | 4/6/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 953 | 953 | ND | 953 | 1,190 |
| Cwi gt 'J qng'4 | 34/37\$ | Gzecxcvgf | 4/6/2022 | ND | ND | 0.00298 | 0.0102 | 0.0138 | 0.0240 | 0.0270 | ND | 644 | 644 | ND | 644 | 2,630 |
| Dqvvqo 'J qrg'3 | 34\$ | Kp/Usw | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 19.2 |
| Dqvvqo 'J qıg'4 | 34\$ | Kp/Usw | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 597 | 597 | ND | 597 | 2,220 |
| Dqwqo 'J qrg'5 | 34\$ | Gzecxcvgf | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 3,870 | 5.: 92 | 1,540 | 7.632 | 312 |
| Dqvvqo 'J qıg'5C | 37\$ | Kp/Usw | 1/3/2023 | NA | NA | NA | NA | NA | NA | NA | ND | 846 | 846 | 297 | 1,140 | NA |
| Pqtvj'Ufgycm | 8\$ | Kp/Usw | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 142 |
| Gcu/Ulf gy cm | 8\$ | Gzecxcvgf | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 1,160 | 3.382 | 523 | 1,680 | 324 |
| Gcu/Ulf gy cmlC | 8\$ | Kp/Usw | 1/3/2023 | NA | NA | NA | NA | NA | NA | NA | ND | 348 | 348 | 142 | 490 | NA |
| Uqwj 'Uf gy cm | 8\$ | Kp/Usw | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 335 | 335 | 155 | 490 | 668 |
| Y gur/Uf gy cm | 8\$ | Kp/Usw | 12/1/2022 | ND | ND | ND | ND | ND | ND | ND | ND | 650 | 650 | 286 | 937 | 26.7 |

Dqrf 'cpf '[gmqy 'J ki j nki j vgf 'kpf kec vgu'Cpcn(vg'Cdqxg'PO QEF 'Enquwt g'Et ksgt kc

PF'/'Cpcr(vg'Pqv'Fgvgevgf'cv'\qt'cdqxg'\qq'g'lcdqtcvqt{'tgrqtv\pi'lko kv

APPENDICES

Appendix C – Release Notification and Corrective Action (Form C-141)

Form C-141

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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Tgrgcug'PqvkHecvkqp'cpf 'Eqttgevkxg'Cevkqp'' Initial only **ORGTCVOT Initial Report** Final Report Name of Company. Chevron Contact: Josepha DeLeon Address: 6301 Deauville Blvd., Midland, TX 79706 Telephone No.: office: 575-263-0424; cell: 432-425-1528 Facility Name: Quail Queen Unit No. 002 Facility Type: Oil Well Surface Owner: Mineral Owner: State of New Mexico API No.: 30-025-25868 NOECVKOP'OH'TGNGCUG'' Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 34E 1980' South 1980' Nevlswf g 32.6730576 Napi lswf g -103.5289078 PCVWTG'QH'TGNGCUG'' Volume of Release: Type of Release: Spill Volume Recovered: .02 barrels oil .02 barrels oil 34 barrels produced water 34.2 barrels produced water Source of Release: Flow Line bottom side of heater treater Date and Hour of Occurrence: Date and Hour of Discovery: 12/27/2017; 08:00 AM 12/27/2017; 08:00 AM Was Immediate Notice Given? If YES, To Whom? NMOCD - Maxey Brown, Olivia Yu BLM – Jim Amos, Shelly Tucker (Confirmed Not Applicable) By Whom? Josepha DeLeon Date and Hour: 12/28/2017; 09:52 AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No N/A If a Watercourse was Impacted, Describe Fully.* RECEIVED N/A By Olivia Yu at 9:51 am, Jan 10, 2018 Describe Cause of Problem and Remedial Action Taken.* A pinhole from flow line. The well was shut in to stop the leak and repair the flow line. Describe Area Affected and Cleanup Action Taken.* All fluid was contained in secondary containment and recovered. Shut in well to repair pinhole on flow line. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION allesen Approved by Environmental Specialist: Signature: Printed Name: Josepha DeLeon

E-mail Address: jdxd@chevron.com

Date: 01/04/2018

Title: Environmental Compliance Specialist

Phone: 432-425-1528

Approval Date:

Conditions of Approval:

see attached directive

Expiration Date:

1/10/2018

Attached

^{*} Attach Additional Sheets If Necessary

 $Appendix \ D-Depth \ to \ Groundwater \ Information$

Received by OCD: 5/3/2023 7:44:29 AM 21 of 92



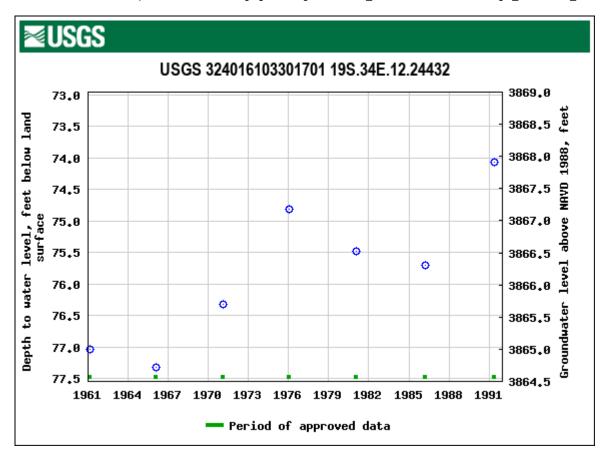
New Mexico Office of the State Engineer Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 637920.42 Northing (Y): 3615569.59 Radius: 804

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



ENVIRONMENTAL PLUS, INC. Micro-Blaze Micro-Blaze Out

STATE APPROVED LAND FARM AND ENVIRONMENTAL SURVICES

6 December 2005

Mr. Larry Johnson Environmental Engineer Specialist New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

RE: Site Characterization

Chesapeake Energy-Quail State SWD (Ref. #160030)

UL-O of Section 11, T19S, R34E

Dear Mr. Johnson:

On September 17, 2005, approximately 115 barrels (bbls) of fluid were released onto the ground surface after lightening struck a 500 bbl fiberglass produced water tank. Approximately 55 bbls of production fluid were recovered by a vacuum truck with the remaining fluid seeping into the soil. Chesapeake Energy Corporation (Chesapeake) retained Environmental Plus, Inc. (EPI) in September 2005 to delineate the vertical extent of impacted soil at the site. This letter report documents the results of the delineation activities and recommends remedial procedures for cleanup of the impacted soil.

Site Background

The site is located in the SW¼ of the SE¼ of Section 11, Township 19 South, Range 34 East at an elevation of approximately 3,792 feet above mean sea level (reference Figures 1 and 2). The property is owned by the State of New Mexico. A search for area water wells was completed utilizing the New Mexico Office of the State Engineers website and a database maintained by the United States Geological Survey (USGS). No wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000- foot radius of the site (reference Figure 2). However, there are three (3) water supply wells located within a 1.0- mile radius of the release area. Groundwater level data indicates an average water depth of approximately 76 feet below ground surface in the area (reference Table 1). Therefore, based on available information, it was determined the distance between the contamination and groundwater is approximately 70 feet. Utilizing this information, the New Mexico Oil Conservation Division (NMOCD) Remedial Goals for this site are determined as follows:

API#3025255360000 incident-nfAC0606153274 pplication-pAC0606153459

| Parameter | Remedial Goal |
|-----------|-------------------------|
| Benzene | 10 parts per million |
| BTEX | 50 parts per million |
| ТРН | 1,000 parts per million |

^{*} Chloride residuals may not be capable of impacting local groundwater above NMWQCC Standard of 250 mg/Kg

P.O. Box 1558

2100 AVENUE O

EUNICE. NEW MEXICO 88231

Field Work

On September 19, 2005, EPI performed an assessment of the surface area damage caused by the spill. The total spill area was surveyed and classified as a primary release area consisting of approximately 16,500 square feet (sf).

On October 18, 2005, EPI mobilized at the site to direct the placement and depth of two (2) soil borings within the perimeter of the release area to delineate the vertical extent of production fluid impacted soil (reference *Figure 4*). During the advancement of the soil borings, samples were collected at 5-foot intervals with a portion of the sample placed in a laboratory provided container and the remainder placed in a self sealing polyethylene bag. The samples in the laboratory provided containers were immediately placed on ice for transport to Environmental Lab of Texas in Odessa, Texas, for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO) and chlorides. The portions of the samples in the self-sealing polyethylene bags were placed in a heated environment (i.e., cab of a truck) to allow the volatilization of organic vapors. After the samples had been allowed to equilibrate to $\approx 70^{\circ}$ F, they were analyzed for the presence of organic vapors utilizing a MiniRae® photoionozation detector (PID) equipped with a 9.8 electron-volt (eV) lamp. In addition, the samples were analyzed in the field for the presence of chlorides using a LaMotte Chloride Test Kit.

The soil borings were advanced to a depth of 45 feet (BH-1) and 65 feet (BH-2) below ground surface (bgs) with samples being collected at 2-feet and 5-feet depths initially then at 5-foot intervals to total depth (TD) of the soil borings. Field analyses of the samples collected during the advancement of soil boring BH-1 indicated the presence of organic vapor concentrations ranging from 1.5 parts per million (ppm) at 20 feet bgs to 4.4 ppm at 2 feet bgs. Field analyses for chloride indicated concentrations ranging from 240 milligrams per kilogram (mg/Kg) at 45 feet bgs to 3,540 mg/Kg at 2 feet bgs. Field analyses of the samples collected during the advancement of soil boring BH-2 indicated the presence of organic vapor concentrations ranging from 1.1 ppm at 20 feet bgs to 3.0 ppm at 15 feet bgs. Field analyses for chlorides indicated concentrations ranging from 240 mg/Kg at 65 feet bgs to 3,120 mg/Kg at 2 feet bgs (reference *Table 1*).

During the advancement of the soil boring, the lithology was defined as caliche from ground surface to a depth of approximately 20 feet bgs, underlain by light tan sand from a depth of approximately 20 feet bgs to TD of each wells respective bore hole (reference *Attachment II*).

Analytical Data

Analytical results for soil samples collected from BH-1 at 2-feet bgs indicated TPH concentrations of 18.7 mg/Kg while benzene and BTEX were not detected at or above laboratory method detection limits (MDL). Samples collected at 5-feet bgs showed traces of toluene (0.0259mg/Kg), ethylene benzene (0.0657 mg/Kg), m,p-xylenes (0.2680 mg/Kg), o-xylene (0.0890 mf/Kg) and BTEX (0.4486 mg/Kg) while TPH was not detected at or above laboratory MDL (reference *Table 1*).

Analytical results from samples collected from BH-2 at 2-feet and 5-feet bgs indicated benzene, BTEX and TPH were not detected at or above laboratory MDL (reference *Table 1*).

Chloride concentrations for the samples obtained during the advancement of soil boring BH-1 were reported ranging from 3,710 mg/Kg at 2-feet bgs to 214 mg/Kg at 15-feet bgs. Chloride concentrations for the samples obtained during the advancement of soil boring for BH-2 were reported ranging from 1,862 mg/Kg at 2-feet bgs to 172 mg/Kg at 15- feet. However, the concentrations from ground level to 5-feet bgs are above the New Mexico Water Quality Control Commission's (NMWQCC) standards for groundwater of 250 mg/Kg. Chloride concentrations from 5-feet bgs to total depth of well borings are below the 250 mg/Kg groundwater standards for both BH-1 and BH-2 (reference Table 1).

Summary

Analytical results for the samples collected during the advancement of soil borings for BH-1 indicate soil is slightly impacted with benzene, BTEX and TPH to a depth of approximately 5-feet bgs while samples for BH-2 indicate no impacted soil. However, the soil from BH-1 and BH-2 is impacted with chlorides which exceed NMOCD Remedial Goals as set forth in the Site Background section and could possibly impact groundwater above New Mexico Water Quality Control Commission's (NMWQCC) standards of 250 mg/Kg groundwater standards.

Based on field and analytical analysis, soil impacted above the NMOCD remedial thresholds extends to a depth of approximately 5-feet bgs within the confines of the release area (reference *Figure 3*). The release area is approximately 16,500 square feet in size, resulting in approximately 3,060 cubic yards of soil (*in situ*) impacted above NMOCD remedial guidelines for this site. It is unlikely that soil impacted above the NMOCD remedial guidelines for this site extends completely to 5 feet bgs across the entire release area and the actual volume of impacted soil may be less than 3,060 cubic yards.

Should you have any questions or concerns, please feel free to contact me at (505) 394-3481 or via e-mail at dduncan@envplus.net. Upon your approval, EPI will initiate the next phase of site remediation. All official correspondence should be submitted to Mr. Bradley Blevins at:

Mr. Bradley Blevins Chesapeake Energy Corporation P.O. Box 190 Hobbs, NM 88240-0190

(505) 391-1462, ext. 6224 bblevins@chkenergy.com

Sincerely,

ENVIRONMENTAL PLUS, INC.

David P. Duncan Civil Engineer

cc: Bradley Blevins, Chesapeake Energy-Hobbs, NM Curtis Blake, Chesapeake Energy-Hobbs, NM Jace Marshall, Chesapeake Energy-Oklahoma City, OK

| | | | | L | og [] | f Test Borings (NDTE - Page 1 of 3) |
|----------------------|-----------------|----------------------|--------------------------|-----------------------|-----------------|---|
| ∠ allı | 5 | | | | | Project Number: 160030 |
| _E | EN | VIRONMEN E APPROV | TAL PI | LUS, INC | <u>.</u> [| Project Name: Chesapeake Quail State SWD |
| | ZIAII | NVIRONME | NTAL SEF | RVICES | | ocation: UL-0, Section 11, Township 19 South, Range 34 East |
| | <u>ن</u> | 505 | EUNICE -394-348 | 31 | В | oring Number: BH-2 Surface Elevation: 3,972 |
| # 4 0 | Type | S) | Sg | 0 iv | € ₽ | Start Date: 10/18/05 Time: 1443 hrs |
| Sample # and Time | Type | (inches) Moisture | PID Readings (ppm) | U.S.C.S. Symbol | Depth (feet) | Completion Date: 10/18/05 Time: 1630 hrs |
| Sa | , 8 | § ₹ | a a | ⊃o | <u> </u> | Description |
| 1443 | | | 2.6 | - | | Rock, Top Soil, Black Clay — |
| | | | | | 2 | |
| | | | | . | _ | |
| | | | | | - 5 | |
| 1447 | | | 2.3 | | | Caliche |
| | | | | | | |
| | | | | - | _ | _ |
| | - | | | | _ | _ |
| | | 1 | | | 10 | Caliche |
| 1500 | | | 2.2 | | | |
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| | | | ļ | | <u>—</u> 15 | |
| 1510 | | | 3.0 | - | _ | Caliche — |
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| | | | | | _ | <u> </u> |
| | | | | | _ | _ |
| 1518 | | | 1.1 | | 20 | Caliche — |
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| | | | | | | _ |
| | | | | - | | _ |
| | | | | | —25 | |
| 1523 | | | 1.9 | | _ | Light Tan Sugar Sand — |
| | | | | | _ | |
| | | | | | _ | |
| | | | | | 30 | |
| 1526 | | | 2.1 | | _ | Light Tan Sugar Sand - |
| Date | Water L Time | evel Mea Sample | surement Casing | ts (feet Cave-ir | | ter Drilling Method: HSA 3.5' [D |
| | | Depth | Depth | Depth | Le | Pockelli Mathadi Pentanite |
| 10/18/05 - | - | - | - | <u> </u> | + | Field Representative: JR |

| | | | | | Lo | 9 0 | f Test Borings (NOTE - Page 2 of 3) |
|----------------------|-------------------|----------------------|------------------|--------------------------|---------------------|-----------------|--|
| / ith | <u> </u> | - | | _ | - | | Project Number: 160030 |
| | | | | | LUS, INC FARM AN | | Project Name: Chesapeake Quail State SWD |
| | | | TRONME | NTAL SER | | | Location: UL-0, Section 11, Township 19 South, Range 34 East |
| , III. | | | | -394-348 | 31 | E | Boring Number: BH-2 Surface Elevation: 3,972 |
| Sample # and Time | Type | Recovery (inches) | Moisture | PID Readings (ppm) | U.S.C.S. Symbol | Depth (feet) | Start Date: 10/18/05 Time: 1443 hrs Completion Date: 10/18/05 Time: 1630 hrs |
| - | | | +=- | + - | | | Description |
| | | | | | | | - |
| | } | | \ | | | _ | |
| | | | | | | _ | _ |
| | | | - | <u> </u> | | 35 | - |
| 544 | 1 | | | L4 | - | | Light Tan Sugar Sand Pebbles |
| | | | - | + | | _ | _ |
| | | | | | | - | - |
| | | | | | | _ | _ |
| 547 | | | | 1.7 | | 40 | Light Tan Sugar Sand Pebbles |
| .34/ | | _ | | 1./ | | _ | - ·- |
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| | | | | | - | _ | _ |
| | | | - | | | 4.5 | 5 |
| 1600 | İ | | | 1.5 | - | _ | Light Tan Sugar Sand - |
| | | | | | | _ | - |
| | | | | | | _ | - |
| | | | | | | _ | |
| 1605 | | | | .9 | | 50 | Redish Tan Sugar Sand - |
| | \longrightarrow | | | ', | | _ | - Committee of the control of the co |
| | | | | | | _ | _ |
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| 1610 | | | | e. | | | Redish Tan Sugar Sand |
| | | | | | | | - |
| | | | | | | _ | |
| | | | | | | 60 | <u></u> |
| 1622 | | | | ယ် | | _ | Redish Tan Sugar Sand - |
| Date | Water Time | | el Meas ample | casing | s (feet: Cave-ir | | ter Drilling Method: HSA 3.5' [D |
| | <u> </u> | | Depth | Depth | Depth | | Backfill Method: Bentonite |
| 10/18/05 - | - - | | - | | = | | _ |
| | | | | | | | Field Representative: JR |

| | | | ********* | | L | . go. | Of Test Borings (NOTE - Page 3 of 3) | | | | |
|--|----------------|-------------|-----------------|--------------------------|--------------------|-----------------|--|--|--|--|--|
| / .dl. | ~, | | | | | | Project Number: 160030 | | | | |
| ENVIRONMENTAL PLUS, INC. | | | | | | | Project Name: Chesapeake Quail State SWD | | | | |
| ENVIRONMENTAL SERVICES EUNICE 505-394-3481 | | | | | | | Location: UL-O, Section 11, Township 19 South, Range 34 East | | | | |
| | | | | | | Ī | Boring Number: BH-2 Surface Elevation: 3,972 | | | | |
| # 4 | ۵. | ا ا ا | <u> </u> | 95 | 2.50 | <u>_</u> | Start Date: 10/18/05 Time: 1443 hrs | | | | |
| Sample # and Time | Sample Type | Recovery | Moisture | PID Readings (ppm) | U.S.C.S. Symbol | Depth (feet) | Completion Date: 10/18/05 Time: 1630 hrs | | | | |
| S & | N. | 85 | . ₽ | 8 | ⊐છે. | ДŰ ——— | Description | | | | |
| ŀ | | | | | | _ | _ | | | | |
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| | | | | | | | | | | | |
| | | | | | | | 65 | | | | |
| 1630 | | | | è | | — — | Redish Tan Sugar Sand | | | | |
| | | | _ | | | | End of Boring at 65.0' | | | | |
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| | | | | | | 8: L | 85 | | | | |
| | | <u> </u> | | | | | | | | | |
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| | | | | | | _ | _ | | | | |
| _ | | | | | | 9 | -90 | | | | |
| | | | | | | _ | <u> </u> | | | | |
| | Wate | | | surement | | | Drilling Method: HSA 3.5' [D | | | | |
| Date | Tim | | Sample Depth | Casing Depth | Cave-I Depth | ri W | Level Backfill Method: Bentonite | | | | |
| 10/18/0 - | 5 - | - | | - | - | | Field Representative: JR | | | | |
| | | I | | | | | rieta kepresentative: Jk | | | | |



New Mexico Office of the State Engineer

Point of Diversion Summary

19S 34E

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** L 04059

Q64 Q16 Q4 Sec Tws Rng 12

639146 3616412*

Driller License:

Driller Company:

Driller Name:

01/29/1959

Drill Finish Date:

01/29/1959

Plug Date:

06/05/1959

Drill Start Date: Log File Date:

02/05/1959

PCW Rcv Date:

Source:

ABBOTT BROTHERS COMPANY

Shallow

Pump Type:

*UTM location was derived from PLSS - see Help

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00 Depth Well: 125 feet

Depth Water:

60 feet

Water Bearing Stratifications:

Top Bottom Description

125

60

70

125 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

5/4/22 8:23 AM

POINT OF DIVERSION SUMMARY

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

L 04723 1 1 1 11 19S 34E

637026 3616880*

9

Driller License: 137 Driller Company: ROBERTS, GRADY

Driller Name:

Drill Start Date:09/22/1961Drill Finish Date:09/24/1961Plug Date:10/30/1961Log File Date:10/16/1961PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:

Casing Size: 6.63 Depth Well: 145 feet Depth Water: 123 feet

| X | Water Bearing Stratifications: | Тор | Bottom | Description |
|---|--------------------------------|-----|--------|-------------------------------|
| | | 130 | 139 | Sandstone/Gravel/Conglomerate |
| | | 139 | 144 | Sandstone/Gravel/Conglomerate |
| | | 144 | 145 | Sandstone/Gravel/Conglomerate |
| | Casing Perforations: | Тор | Bottom | |
| | | 120 | 145 | |

^{*}UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/4/22 8:28 AM

POINT OF DIVERSION SUMMARY

 ${\bf Appendix} \; {\bf E} - {\bf Photographic} \; {\bf Documentation}$

Project Name: Quail Queen Unit #002

Project No: 15661

Photo No: 1. April 6, 2022 1:00 pm GPS: 32,669196, -103.529074 Description: View during the initial site assessment. April 6, 2022 1:00 pm GPS: 32,669196, -103.529074



Project Name: Quail Queen Unit #002

Project No: 15661

Photo No:

3.

Direction Taken:

Southeast

Description:

View during the initial site assessment.



Photo No:

4.

Direction Taken:

South

Description:

View during excavation activities.



Project Name: Quail Queen Unit #002

Project No: 15661

Photo No: 5.

Direction Taken:

South-Southwest

Description:

View during excavation activities.



Photo No: 6.

Direction Taken:

Southeast

Description:

View during excavation activities.



Project Name: Quail Queen Unit #002

Project No: 15661

Photo No: 7.

Direction Taken:

Northwest

Description:

View following remediation activities.



Photo No:

8.

Direction Taken:

Southeast

Description:

View following remediation activities.



Appendix F – Analytical Reports

Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-13745-1

Laboratory Sample Delivery Group: 15661 Client Project/Site: Quail Queen Unit #002

For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: Brandon Wilson

MAMER

Authorized for release by: 4/20/2022 7:34:04 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project

results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

/Env

Released to Imaging: 5/3/2023 1:44:19 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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13

Client: Etech Environmental & Safety Solutions Project/Site: Quail Queen Unit #002 Laboratory Job ID: 880-13745-1 SDG: 15661

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| QC Sample Results | 10 |
| QC Association Summary | 15 |
| Lab Chronicle | 18 |
| Certification Summary | 20 |
| Method Summary | 21 |
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Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 880-13745-1 Project/Site: Quail Queen Unit #002

SDG: 15661

Qualifiers

| GC VOA |
|---------------|
| Qualifier |

| F1 | MS and/or MSD recovery exceeds control limits. |
|-----|--|
| F2 | MS/MSD RPD exceeds control limits |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

Qualifier Description

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|---|
| U | Indicates the analyte was analyzed for but not detected |

Glossary

EDL

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| n | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |

DL, RA, RE, IN DLC

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry) MDC MDL Method Detection Limit

MI 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 Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Job ID: 880-13745-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-13745-1

Receipt

The samples were received on 4/14/2022 4:29 PM. 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 0.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23778 and analytical batch 880-23767 were outside control limits. Sample matrix interference and/or non-homogeneity are 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

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.

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

Lab Sample ID: 880-13745-1

SDG: 15661

Matrix: Solid

Client Sample ID: Auger Hole 1

Date Collected: 04/06/22 12:00

Date Received: 04/14/22 16:29

Sample Depth: 0 - 6"

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|------------|-----|-------|---|----------------|-------------------------|---------|
| Benzene | <0.00202 | U F2 F1 | 0.00202 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| Toluene | <0.00202 | U F2 F1 | 0.00202 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| Ethylbenzene | <0.00202 | U F2 F1 | 0.00202 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U F2 F1 | 0.00403 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| o-Xylene | <0.00202 | U F1 | 0.00202 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| Xylenes, Total | <0.00403 | U F1 | 0.00403 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | 04/19/22 09:58 | 04/19/22 12:32 | 1 |
| Method: Total BTEX - Total BTEX | (Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 1950 | | 49.9 | | mg/Kg | | | 04/18/22 12:12 | 1 |
| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:14 | 1 |
| Diesel Range Organics (Over C10-C28) | 1950 | | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:14 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | | 04/15/22 08:43 | 04/16/22 05:14 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | | | | 04/15/22 08:43 | 04/16/22 05:14 | 1 |
| Method: 300.0 - Anions, Ion Chro | • • • | | | | | | | | |
| | | | | | | | | | |
| Analyte | Result 83.4 | Qualifier | RL 4.95 | MDL | mg/Kg | D | Prepared | Analyzed 04/19/22 12:42 | Dil Fac |

Client Sample ID: Auger Hole 1

Date Collected: 04/06/22 12:02

Date Received: 04/14/22 16:29

Sample Depth: 12 - 15"

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | | | 04/19/22 09:58 | 04/19/22 12:53 | 1 |

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-13745-2

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Client Sample ID: Auger Hole 1

Date Collected: 04/06/22 12:02

Date Received: 04/14/22 16:29 Sample Depth: 12 - 15"

Lab Sample ID: 880-13745-2

Lab Sample ID: 880-13745-3

Matrix: Solid

Matrix: Solid

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

Qualifier %Recovery Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 04/19/22 09:58 1,4-Difluorobenzene (Surr) 101 04/19/22 12:53

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <0.00399 Total BTEX 0.00399 04/19/22 16:59 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.9 04/18/22 12:12 1450 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg 04/15/22 08:43 Gasoline Range Organics 49.9 04/16/22 05:35 (GRO)-C6-C10 49.9 04/15/22 08:43 04/16/22 05:35 **Diesel Range Organics (Over** 1450 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 04/15/22 08:43 04/16/22 05:35 Prepared Analyzed Dil Fac

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 81 70 - 130 o-Terphenyl 91 70 - 130

04/15/22 08:43 04/16/22 05:35 04/15/22 08:43 04/16/22 05:35

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.95 04/19/22 12:48 Chloride 305 mg/Kg

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:04

Date Received: 04/14/22 16:29

Sample Depth: 0 - 6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 0.00199 mg/Kg 04/19/22 09:58 04/19/22 13:13 Toluene <0.00199 U 0.00199 04/19/22 09:58 04/19/22 13:13 mg/Kg Ethylbenzene <0.00199 U 0.00199 04/19/22 09:58 04/19/22 13:13 mg/Kg 04/19/22 13:13 m-Xylene & p-Xylene <0.00398 U 0.00398 04/19/22 09:58 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 04/19/22 09:58 04/19/22 13:13 Xylenes, Total <0.00398 U 0.00398 mg/Kg 04/19/22 09:58 04/19/22 13:13 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

70 - 130 4-Bromofluorobenzene (Surr) 102 04/19/22 09:58 04/19/22 13:13 1,4-Difluorobenzene (Surr) 100 70 - 130 04/19/22 09:58 04/19/22 13:13

Method: Total BTEX - Total BTEX Calculation

Analyte RL MDL D Result Qualifier Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 04/19/22 16:59 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.9 04/18/22 12:12 953 mg/Kg

Eurofins Midland

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:04 Date Received: 04/14/22 16:29 Lab Sample ID: 880-13745-3

Lab Sample ID: 880-13745-4

Matrix: Solid

Matrix: Solid

Sample Depth: 0 - 6"

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:56 | 1 |
| Diesel Range Organics (Over | 953 | | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:56 | 1 |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/16/22 05:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 79 | | 70 - 130 | | | | 04/15/22 08:43 | 04/16/22 05:56 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | | 04/15/22 08:43 | 04/16/22 05:56 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:06

Date Received: 04/14/22 16:29

Sample Depth: 12 - 15"

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| Ethylbenzene | 0.00298 | | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| m-Xylene & p-Xylene | 0.0102 | | 0.00399 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| o-Xylene | 0.0138 | | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| Xylenes, Total | 0.0240 | | 0.00399 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 | | | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | | 04/19/22 09:58 | 04/19/22 13:34 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | 0.0270 | | 0.00399 | | mg/Kg | | | 04/19/22 16:59 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | 644 | | 49.9 | | mg/Kg | | | 04/18/22 12:12 | 1 |
| Method: 8015B NM - Diesel Rang | je Organics (Di | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 17:03 | 1 |
| Diesel Range Organics (Over C10-C28) | 644 | | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 17:03 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 17:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 94 | | 70 - 130 | | | | 04/15/22 08:43 | 04/15/22 17:03 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | | 04/15/22 08:43 | 04/15/22 17:03 | 1 |

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Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:06 Date Received: 04/14/22 16:29 Lab Sample ID: 880-13745-4 Matrix: Solid

Sample Depth: 12 - 15"

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | | |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|--|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 2630 | | 25.0 | | mg/Kg | | | 04/19/22 13:58 | 5 | | |

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Surrogate Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-13745-1 | Auger Hole 1 | 98 | 100 | |
| 880-13745-1 MS | Auger Hole 1 | 2 S1- | 99 | |
| 880-13745-1 MSD | Auger Hole 1 | 96 | 102 | |
| 880-13745-2 | Auger Hole 1 | 94 | 101 | |
| 880-13745-3 | Auger Hole 2 | 102 | 100 | |
| 880-13745-4 | Auger Hole 2 | 119 | 95 | |
| LCS 880-23778/1-A | Lab Control Sample | 99 | 102 | |
| LCSD 880-23778/2-A | Lab Control Sample Dup | 97 | 101 | |
| MB 880-23778/5-A | Method Blank | 100 | 93 | |
| Surrogate Legend | | | | |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-13745-1 | Auger Hole 1 | 78 | 90 | |
| 880-13745-2 | Auger Hole 1 | 81 | 91 | |
| 880-13745-3 | Auger Hole 2 | 79 | 87 | |
| 880-13745-4 | Auger Hole 2 | 94 | 113 | |
| 880-13746-A-1-B MS | Matrix Spike | 67 S1- | 69 S1- | |
| 880-13746-A-1-C MSD | Matrix Spike Duplicate | 71 | 75 | |
| Surrogate Legend | | | | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| | | 1CO2 | OTPH2 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| LCS 880-23575/2-A | Lab Control Sample | 113 | 132 S1+ | |
| LCSD 880-23575/3-A | Lab Control Sample Dup | 100 | 118 | |
| MB 880-23575/1-A | Method Blank | 80 | 96 | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |

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QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23778/5-A

Matrix: Solid

Analysis Batch: 23767

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23778

| | MB | MB | | | | | | | |
|---------------------|-----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| Xylenes, Total | < 0.00400 | U | 0.00400 | | mg/Kg | | 04/19/22 09:58 | 04/19/22 12:11 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | 04/19/22 09:58 | 04/19/22 12:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 04/19/22 09:58 | 04/19/22 12:11 | 1 |

Lab Sample ID: LCS 880-23778/1-A

Matrix: Solid

Analysis Batch: 23767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23778

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1203 mg/Kg 120 70 - 130 Toluene 0.100 0.1112 mg/Kg 111 70 - 130 0.100 0.1010 Ethylbenzene mg/Kg 101 70 - 130 0.200 106 70 - 130 m-Xylene & p-Xylene 0.2116 mg/Kg 0.100 0.1004 70 - 130 o-Xylene mg/Kg 100

LCS LCS

| Surrogate | %Recovery Q | ualifier | Limits |
|-----------------------------|-------------|----------|----------|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: LCSD 880-23778/2-A

Matrix: Solid

Analysis Batch: 23767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23778

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.1220 | | mg/Kg | | 122 | 70 - 130 | 1 | 35 | |
| Toluene | 0.100 | 0.1124 | | mg/Kg | | 112 | 70 - 130 | 1 | 35 | |
| Ethylbenzene | 0.100 | 0.1018 | | mg/Kg | | 102 | 70 - 130 | 1 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2132 | | mg/Kg | | 107 | 70 - 130 | 1 | 35 | |
| o-Xylene | 0.100 | 0.1014 | | mg/Kg | | 101 | 70 - 130 | 1 | 35 | |

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 101 | 70 - 130 |

Lab Sample ID: 880-13745-1 MS

Matrix: Solid

Analysis Batch: 23767

Client Sample ID: Auger Hole 1

Prep Type: Total/NA

Prep Batch: 23778

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|----------|-----------|-------|----------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00202 | U F2 F1 | 0.100 | 0.002399 | F1 | mg/Kg | | 2 | 70 - 130 | |
| Toluene | <0.00202 | U F2 F1 | 0.100 | <0.00200 | U F1 | mg/Kg | | 2 | 70 - 130 | |

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QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

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

Lab Sample ID: 880-13745-1 MS

Matrix: Solid

Analysis Batch: 23767

Client Sample ID: Auger Hole 1

Prep Type: Total/NA

Prep Batch: 23778

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|--------------|----------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Ethylbenzene | <0.00202 | U F2 F1 | 0.100 | <0.00200 | U F1 | mg/Kg | | 2 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00403 | U F2 F1 | 0.200 | <0.00401 | U F1 | mg/Kg | | 2 | 70 - 130 | |
| o-Xylene | <0.00202 | U F1 | 0.100 | <0.00200 | U F1 | mg/Kg | | 0 | 70 - 130 | |

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 2 | S1- | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Client Sample ID: Auger Hole 1

Prep Type: Total/NA

Prep Batch: 23778

Matrix: Solid Analysis Batch: 23767

Lab Sample ID: 880-13745-1 MSD

| Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|------------------------------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte Resul | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene <0.00202 | U F2 F1 | 0.0998 | 0.1105 | F2 | mg/Kg | | 111 | 70 - 130 | 192 | 35 |
| Toluene <0.00202 | U F2 F1 | 0.0998 | 0.08062 | F2 | mg/Kg | | 81 | 70 - 130 | 191 | 35 |
| Ethylbenzene <0.00202 | U F2 F1 | 0.0998 | 0.05685 | F2 F1 | mg/Kg | | 57 | 70 - 130 | 190 | 35 |
| m-Xylene & p-Xylene <0.00403 | U F2 F1 | 0.200 | 0.1160 | F2 F1 | mg/Kg | | 58 | 70 - 130 | 189 | 35 |
| o-Xylene <0.00202 | U F1 | 0.0998 | 0.05504 | F1 | mg/Kg | | 55 | 70 - 130 | NC | 35 |

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

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

Lab Sample ID: MB 880-23575/1-A

Matrix: Solid

Analysis Batch: 23584

| Client Sample ID: Method Blank |
|--------------------------------|
| Prep Type: Total/NA |
| Drop Potch: 22575 |

Prep Batch: 23575

| | IVID | MID | | | | | | | |
|---|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 10:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 10:24 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 04/15/22 08:43 | 04/15/22 10:24 | 1 |

MB MB

MR MR

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80 | | 70 - 130 | 04/15/22 08:43 | 04/15/22 10:24 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | 04/15/22 08:43 | 04/15/22 10:24 | 1 |

Lab Sample ID: LCS 880-23575/2-A

Matrix: Solid

Analysis Batch: 23584

| Client Sample | ID: Lab | Control Sample | |
|---------------|---------|-----------------------|--|
| | _ | | |

Prep Type: Total/NA Prep Batch: 23575

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 977.3 | | mg/Kg | | 98 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 1032 | | mg/Kg | | 103 | 70 - 130 | |
| C10-C28) | | | | | | | | |

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Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Lab Sample ID: LCSD 880-23575/3-A

Lab Sample ID: 880-13746-A-1-B MS

Job ID: 880-13745-1

SDG: 15661

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

Lab Sample ID: LCS 880-23575/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 23584

Diesel Range Organics (Over

Analysis Batch: 23584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 23575

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 113 70 - 130 o-Terphenyl 132 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA

Prep Batch: 23575

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Analysis Batch: 23584 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1072 107 70 - 1309 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

910.6

mg/Kg

1000

C10-C28)

Matrix: Solid

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 100 | | 70 - 130 |
| o-Terphenyl | 118 | | 70 - 130 |

Client Sample ID: Matrix Spike

91

Prep Type: Total/NA

Prep Batch: 23575

Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 1000 694.8 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 1000 596.9 F1 mg/Kg 58 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits S1-70 - 130 1-Chlorooctane 67 70 - 130 o-Terphenyl 69 S1-

Lab Sample ID: 880-13746-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23584

Prep Type: Total/NA

Prep Batch: 23575

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 998 734.2 72 Gasoline Range Organics <49.9 mg/Kg 70 - 130 6 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 998 657.3 F1 mg/Kg 64 70 - 130 10 20

C10-C28)

MSD MSD

| Surrogate | %Recovery Qu | alifier Limits |
|----------------|--------------|----------------|
| 1-Chlorooctane | 71 | 70 - 130 |
| o-Terphenyl | 75 | 70 - 130 |

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QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23640/1-A

Matrix: Solid

Analysis Batch: 23775

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RLMDL Unit D Prepared

Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 04/19/22 09:39

Lab Sample ID: LCS 880-23640/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23775

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 233.2 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-23640/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23775

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 230.5 250 mg/Kg 90 - 110

Lab Sample ID: 880-13733-A-1-F MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23775

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 78.0 250 307.1 90 - 110 mg/Kg

Lab Sample ID: 880-13733-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23775

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 78.0 250 310.0 mg/Kg 93 90 _ 110

Lab Sample ID: MB 880-23643/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 23776

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 04/19/22 13:20

Lab Sample ID: LCS 880-23643/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23776

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 228.6 mg/Kg 91 90 - 110

мв мв

Lab Sample ID: LCSD 880-23643/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 23776

Released to Imaging: 5/3/2023 1:44:19 PM

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit

Chloride 250 233.3 mg/Kg 93 90 - 110 20

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-13745-3 MS

Lab Sample ID: 880-13745-3 MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 23776

| Client Sam | ple ID: | Auger | Hole 2 |
|------------|---------|-------|---------|
| | Pren ' | Type: | Soluble |

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 1190 1250 2472 mg/Kg 103 90 - 110

Client Sample ID: Auger Hole 2

Prep Type: Soluble

Analysis Batch: 23776 Sample Sample Spike MSD MSD

%Rec RPD RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit D %Rec Chloride 1190 1250 2431 mg/Kg 99 90 - 110 2 20

QC Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Quail Queen Unit #002 Job ID: 880-13745-1 SDG: 15661

GC VOA

Analysis Batch: 23767

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | 8021B | 23778 |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | 8021B | 23778 |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | 8021B | 23778 |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | 8021B | 23778 |
| MB 880-23778/5-A | Method Blank | Total/NA | Solid | 8021B | 23778 |
| LCS 880-23778/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 23778 |
| LCSD 880-23778/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 23778 |
| 880-13745-1 MS | Auger Hole 1 | Total/NA | Solid | 8021B | 23778 |
| 880-13745-1 MSD | Auger Hole 1 | Total/NA | Solid | 8021B | 23778 |

Prep Batch: 23778

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | 5035 | |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | 5035 | |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | 5035 | |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | 5035 | |
| MB 880-23778/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-23778/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-23778/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-13745-1 MS | Auger Hole 1 | Total/NA | Solid | 5035 | |
| 880-13745-1 MSD | Auger Hole 1 | Total/NA | Solid | 5035 | |

Analysis Batch: 23799

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | Total BTEX | |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | Total BTEX | |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | Total BTEX | |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 23575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | 8015NM Prep | |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | 8015NM Prep | |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | 8015NM Prep | |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | 8015NM Prep | |
| MB 880-23575/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-23575/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-23575/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-13746-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-13746-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 23584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | 8015B NM | 23575 |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | 8015B NM | 23575 |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | 8015B NM | 23575 |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | 8015B NM | 23575 |
| MB 880-23575/1-A | Method Blank | Total/NA | Solid | 8015B NM | 23575 |
| LCS 880-23575/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 23575 |

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QC Association Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1 SDG: 15661

GC Semi VOA (Continued)

Analysis Batch: 23584 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-23575/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 23575 |
| 880-13746-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 23575 |
| 880-13746-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 23575 |

Analysis Batch: 23735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method Prep Batch |
|---------------|------------------|-----------|--------|-------------------|
| 880-13745-1 | Auger Hole 1 | Total/NA | Solid | 8015 NM |
| 880-13745-2 | Auger Hole 1 | Total/NA | Solid | 8015 NM |
| 880-13745-3 | Auger Hole 2 | Total/NA | Solid | 8015 NM |
| 880-13745-4 | Auger Hole 2 | Total/NA | Solid | 8015 NM |

HPLC/IC

Leach Batch: 23640

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-13745-1 | Auger Hole 1 | Soluble | Solid | DI Leach | |
| 880-13745-2 | Auger Hole 1 | Soluble | Solid | DI Leach | |
| MB 880-23640/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-23640/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-23640/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-13733-A-1-F MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-13733-A-1-G MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 23643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-13745-3 | Auger Hole 2 | Soluble | Solid | DI Leach | |
| 880-13745-4 | Auger Hole 2 | Soluble | Solid | DI Leach | |
| MB 880-23643/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-23643/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-23643/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-13745-3 MS | Auger Hole 2 | Soluble | Solid | DI Leach | |
| 880-13745-3 MSD | Auger Hole 2 | Soluble | Solid | DI Leach | |

Analysis Batch: 23775

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 880-13745-1 | Auger Hole 1 | Soluble | Solid | 300.0 | 23640 |
| 880-13745-2 | Auger Hole 1 | Soluble | Solid | 300.0 | 23640 |
| MB 880-23640/1-A | Method Blank | Soluble | Solid | 300.0 | 23640 |
| LCS 880-23640/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 23640 |
| LCSD 880-23640/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 23640 |
| 880-13733-A-1-F MS | Matrix Spike | Soluble | Solid | 300.0 | 23640 |
| 880-13733-A-1-G MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 23640 |

Analysis Batch: 23776

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-13745-3 | Auger Hole 2 | Soluble | Solid | 300.0 | 23643 |
| 880-13745-4 | Auger Hole 2 | Soluble | Solid | 300.0 | 23643 |
| MB 880-23643/1-A | Method Blank | Soluble | Solid | 300.0 | 23643 |
| LCS 880-23643/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 23643 |
| LCSD 880-23643/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 23643 |
| 880-13745-3 MS | Auger Hole 2 | Soluble | Solid | 300.0 | 23643 |

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QC Association Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

HPLC/IC (Continued)

Analysis Batch: 23776 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 880-13745-3 MSD | Auger Hole 2 | Soluble | Solid | 300.0 | 23643 |

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1 SDG: 15661

Client Sample ID: Auger Hole 1

Date Collected: 04/06/22 12:00 Date Received: 04/14/22 16:29 Lab Sample ID: 880-13745-1

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 23778 | 04/19/22 09:58 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 23767 | 04/19/22 12:32 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 23799 | 04/19/22 16:59 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 23735 | 04/18/22 12:12 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 23575 | 04/15/22 08:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 23584 | 04/16/22 05:14 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 23640 | 04/15/22 11:47 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 23775 | 04/19/22 12:42 | CH | XEN MID |

Client Sample ID: Auger Hole 1

Date Collected: 04/06/22 12:02

Date Received: 04/14/22 16:29

Lab Sample ID: 880-13745-2

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 23778 | 04/19/22 09:58 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 23767 | 04/19/22 12:53 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 23799 | 04/19/22 16:59 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 23735 | 04/18/22 12:12 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 23575 | 04/15/22 08:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 23584 | 04/16/22 05:35 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 23640 | 04/15/22 11:47 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 23775 | 04/19/22 12:48 | CH | XEN MID |

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:04

Date Received: 04/14/22 16:29

| Lab Sample | D: 880-13745-3 |
|------------|----------------|
|------------|----------------|

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 23778 | 04/19/22 09:58 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 23767 | 04/19/22 13:13 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 23799 | 04/19/22 16:59 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 23735 | 04/18/22 12:12 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 23575 | 04/15/22 08:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 23584 | 04/16/22 05:56 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 23643 | 04/15/22 11:50 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 23776 | 04/19/22 13:39 | SC | XEN MID |

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:06

Date Received: 04/14/22 16:29

| Lab Sample I | D: 880-13745-4 |
|--------------|----------------|
|--------------|----------------|

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 23778 | 04/19/22 09:58 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 23767 | 04/19/22 13:34 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 23799 | 04/19/22 16:59 | AJ | XEN MID |

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1 SDG: 15661

Client Sample ID: Auger Hole 2

Date Collected: 04/06/22 12:06 Date Received: 04/14/22 16:29

Lab Sample ID: 880-13745-4

Matrix: Solid

| | 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 | | | 23735 | 04/18/22 12:12 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 23575 | 04/15/22 08:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 23584 | 04/15/22 17:03 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 23643 | 04/15/22 11:50 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 23776 | 04/19/22 13:58 | SC | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

Laboratory: Eurofins Midland

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

| Authority Texas | | ogram | Identification Number | Expiration Date |
|--|-------------|---------------------------------|---|------------------------|
| | | ELAP | T104704400-21-22 | 06-30-22 |
| The following analytes the agency does not of | • • | t the laboratory is not certifi | ed by the governing authority. This list ma | ay include analytes fo |
| Analysis Method | Prep Method | Matrix | Analyte | |
| | | | | |
| 8015 NM | | Solid | Total TPH | |

Method Summary

Client: Etech Environmental & Safety Solutions Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

| Method | Method Description | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B | Volatile Organic Compounds (GC) | SW846 | XEN MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | XEN MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | XEN MID |
| 300.0 | Anions, Ion Chromatography | MCAWW | XEN MID |
| 5035 | Closed System Purge and Trap | SW846 | XEN MID |
| 8015NM Prep | Microextraction | SW846 | XEN MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | XEN 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:

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

Eurofins Midland

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Sample Summary

Client: Etech Environmental & Safety Solutions

Project/Site: Quail Queen Unit #002

Job ID: 880-13745-1

SDG: 15661

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|----------|
| 880-13745-1 | Auger Hole 1 | Solid | 04/06/22 12:00 | 04/14/22 16:29 | 0 - 6" |
| 880-13745-2 | Auger Hole 1 | Solid | 04/06/22 12:02 | 04/14/22 16:29 | 12 - 15" |
| 880-13745-3 | Auger Hole 2 | Solid | 04/06/22 12:04 | 04/14/22 16:29 | 0 - 6" |
| 880-13745-4 | Auger Hole 2 | Solid | 04/06/22 12:06 | 04/14/22 16:29 | 12 - 15" |

Chain of Custody

Work Order No: 13745

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296

| | | | HODDS | NIVI (575-39) | 2-7550) Phoenix | ,AZ (48 | 0-355-0 | 1900) A | tlanta (| 3A (770 | -449-88 | 300) Ta | ımpa FL | (813 | 620-20 | 00) | | WWW X | enco (| com | Page of | |
|--------------------|------------------|-----------|-----------------|---|---------------------|------------|-----------|----------|---|---------|---------|---------|---------|------|----------|-----------|--|---------|---------|---------|--|----|
| Project Manager | Brandon Wilso | n | | | Bill to (if differe | ent) | | | *************************************** | | | | | Ì | | | ······································ | | | ******* | omments | |
| Company Name | Etech Environi | mental | | | Company Na | me | | | | | | | | | Prog | ram: U | ST/PS | T PR | P B | rownf | ields RRC Superfund | |
| Address | 13000 W CR 1 | 100 | | | Address | | | | | | | | | | l . | ate of | | | | | • | |
| City, State ZIP | Odessa, Texas | s 79765 | | | City, State ZI | P | | | | | | | | | Repo | rting Le | evel II | Leve | IIII 🗖 | PST/U | JST TRRP Level IV | |
| Phone | 432-563-2200 | | | Emai | l <u>brandon@</u> e | techer | nv con | ո, blak | e@et | echen | v com | | | | Deliv | erables | EDD | | Α | DaPT | Other | |
| Project Name | Quail Queen U | Jnit #002 | | т | urn Around | | | | | | AN | IALYS | SIS RE | OLIF | ST | | | VV/VV | | | Work Order Notes | |
| Project Number | 15661 | | | Rou | ıtıne | | | | <u> </u> | | | | Ī | | | Ī | | | | | | |
| PO Number | 15661 | | | Rus | | | | İ | | | | | | | | | | | | | | |
| Sampler's Name | Blake Estep | | | Due | Date | | | | | | | | | | | | | | | | | |
| SAMPLE RECI | EIPT Ten | np Blank | Yes No | Wet Ice | (es No | | | | | | | | | | | | | | l | | | |
| Temperature (°C) | 1.31. | 2, | | Thermomete | | Sign | | | | | | | | | | | | | | | | |
| Received Intact. | (Yes) | <u> </u> | | 7 | PP. | Containers | | | | | | | | | | | | | | | | |
| Cooler Custody Sea | 2000-00 pq | 0 (NA) | Corre | ction Factor | | ၂ ခွ် | | | | | | | | | | | | | [| ĺ | TAT starts the day receyled | |
| Sample Custody Se | als Yes N | O (NAM) | Tota | l Containers | | jo 1 | sa | 8015M | 8021B | | | | | | | | | | 1 | | lab if received by 4 30pi | |
| Sample Idei | ntification | Matrix | Date Sampled | Time Sampled | Depth | Number | Chlorides | TPH 80 | BTEX 8 | | | | | | | | | | | | Sample Comments | s |
| Auger H | Hole 1 | S | 4/6/2022 | 12 00 | 0-6" | 1 | Х | Х | Х | | | | | | | 1 | | | | | ······································ | |
| Auger H | lole 1 | S | 4/6/2022 | 12 02 | 12-15" | 1 | Х | Х | Х | | | | | | | | | | | 1 | | |
| Auger F | lole 2 | S | 4/6/2022 | 12 04 | 0-6" | 1 | Х | Х | Х | | | | | | | | | | | | | |
| Auger H | lole 2 | s | 4/6/2022 | 12 06 | 12-15" | 1 | Х | Х | Х | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | *************************************** | | <u> </u> | | | | | | | | | | , - 11 | 13) 33 11) 36 1 | |) | | III 810 81 811 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
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| | | | | | | <u> </u> | | ļ | ļ | | | | | | <u> </u> | 111 88 | 0-1374 | 5 Chain | of Cu | etody. | | |
| | | | | | | | | <u> </u> | <u> </u> | L | | | | | <u> </u> | | | | . or ou | Jiouy | | |
| Total 200.7 / 6 | | | 8F | RCRA 13F | PPM Texas 1 | 1 Al | Sb A | s Ba | Be E | 3 Cd | Ca C | r Co | Cu Fe | Pb | Mg | Mn M | o Nı | K Se | Ag Sı | | la Sr Tl Sn U V Zn | |
| Circle Method | (s) and Metal(s) | to be an | alyzed | TCLP / SF | PLP 6010 8R | CRA | Sb A | \s Ba | Be (| Cd Cr | Co (| Cu Pb | Mn N | Mo I | N Se | Ag T | l U | | | 163 | 1 / 245.1 / 7470 / 7471 | Hg |
| 1-41 01 | | | | | | | | | | | | | | | | | | | | | | |

otice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated

| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|-----------|-----------------------------|-------------------------|-----------|
| 1 Kno | 2 Kent | W14/22 | 2 | | |
| 3 | 3 0 0 | 1/20129 | 1 | | |
| 5 | | | 5 | | |

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-13745-1

SDG Number: 15661

Login Number: 13745 **List Source: Eurofins Midland**

List Number: 1 Creator: Teel, Brianna

| 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 | |
| s 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 <6 mm (1/4"). | N/A | |

Eurofins Midland

Released to Imaging: 5/3/2023 1:44:19 PM

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Blake Estep
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Quail Queen #002 Project Number: 15661 Location: New Mexico

Lab Order Number: 2L02013



Current Certification

Report Date: 12/09/22

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------------|---------------|--------|----------------|------------------|
| Bottom Hole - 1 @ 12" | 2L02013-01 | Soil | 12/01/22 14:00 | 12-02-2022 12:40 |
| Bottom Hole - 2 @ 12" | 2L02013-02 | Soil | 12/01/22 14:02 | 12-02-2022 12:40 |
| Bottom Hole - 3 @ 12" | 2L02013-03 | Soil | 12/01/22 14:04 | 12-02-2022 12:40 |
| North Sidewall @ 6" | 2L02013-04 | Soil | 12/01/22 14:06 | 12-02-2022 12:40 |
| East Sidewall @ 6" | 2L02013-05 | Soil | 12/01/22 14:08 | 12-02-2022 12:40 |
| South Sidewall @ 6" | 2L02013-06 | Soil | 12/01/22 14:10 | 12-02-2022 12:40 |
| West Sidewall @ 6" | 2L02013-07 | Soil | 12/01/22 14:12 | 12-02-2022 12:40 |

13000 West County Road 100 Pr Odessa TX, 79765 Pro

Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Bottom Hole - 1 @ 12" 2L02013-01 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|-------------|--------------------|-----------|------------|-------------|----------------|----------------|------------|-------|
| | | P | ermian B | asin Envii | ronmental I | Lab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Toluene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Ethylbenzene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00230 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Xylene (o) | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 85.9 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 22:23 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6 | -C35 by EP | A Method | 8015M | | | | | | |
| C6-C12 | ND | 28.7 | mg/kg dry | 1 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:09 | TPH 8015M | |
| >C12-C28 | ND | 28.7 | mg/kg dry | 1 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:09 | TPH 8015M | |
| >C28-C35 | ND | 28.7 | mg/kg dry | 1 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:09 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 105 % | 70-130 | | P2L0601 | 12/06/22 09:00 | 12/06/22 21:09 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 117 % | 70-130 | | P2L0601 | 12/06/22 09:00 | 12/06/22 21:09 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.7 | mg/kg dry | 1 | [CALC] | 12/06/22 09:00 | 12/06/22 21:09 | calc | |
| General Chemistry Parameters by | EPA / Stand | lard Metl | hods | | | | | | |
| Chloride | 19.2 | 1.15 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 09:36 | EPA 300.0 | |
| % Moisture | 13.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Bottom Hole - 2 @ 12" 2L02013-02 (Soil)

| Analyte | | Reporting | TT '4 | D'1 4' | D 4 1 | D 1 | Analyzad | Mathad | Notes |
|----------------------------------|-------------|-----------|-----------|------------|-------------|----------------|----------------|------------|-------|
| 1 mary to | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | note |
| | | P | ermian B | asin Envii | ronmental L | ab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Toluene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Ethylbenzene | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00230 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Xylene (o) | ND | 0.00115 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | d | 86.5 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 22:44 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | Method | 8015M | | | | | | |
| C6-C12 | ND | 144 | mg/kg dry | 5 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:32 | TPH 8015M | |
| >C12-C28 | 597 | 144 | mg/kg dry | 5 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:32 | TPH 8015M | |
| >C28-C35 | ND | 144 | mg/kg dry | 5 | P2L0601 | 12/06/22 09:00 | 12/06/22 21:32 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 106 % | 70-130 | | P2L0601 | 12/06/22 09:00 | 12/06/22 21:32 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 116 % | 70-130 | | P2L0601 | 12/06/22 09:00 | 12/06/22 21:32 | TPH 8015M | |
| Total Petroleum Hydrocarbon | 597 | 144 | mg/kg dry | 5 | [CALC] | 12/06/22 09:00 | 12/06/22 21:32 | calc | |
| C6-C35 | | | | | | | | | |
| General Chemistry Parameters by | EPA / Stand | ard Met | hods | | | | | | |
| Chloride | 2220 | 11.5 | mg/kg dry | 10 | P2L0505 | 12/05/22 15:51 | 12/06/22 09:49 | EPA 300.0 | |
| % Moisture | 13.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Bottom Hole - 3 @ 12" 2L02013-03 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--|--------------|--------------------|-----------|-----------|--------------------|----------------|----------------|------------|------|
| | | p | ermian R | asin Envi | ronmental L | • | <u> </u> | | |
| BTEX by 8021B | | • | D | | Camental L | , 2.11 | | | |
| Benzene | ND | 0.00114 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Toluene | ND | 0.00114 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Ethylbenzene | ND | 0.00114 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00227 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Xylene (o) | ND | 0.00114 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 95.6 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 87.5 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:05 | EPA 8021B | |
| F-4-l D-4l H-dl CC | C25 b ED4 | M-41- 1 | 001535 | | | | | | |
| Total Petroleum Hydrocarbons C6- C6-C12 | ND | <u> 284</u> | mg/kg dry | 10 | P2L0602 | 12/06/22 09:00 | 12/06/22 13:24 | TPH 8015M | |
| C0-C12 >C12-C28 | 3870 | 284 | mg/kg dry | 10 | P2L0602 P2L0602 | 12/06/22 09:00 | 12/06/22 13:24 | TPH 8015M | |
| >C12-C28 >C28-C35 | 3870 1540 | 284 | mg/kg dry | 10 | P2L0602 | 12/06/22 09:00 | 12/06/22 13:24 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | 10.10 | 101 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/06/22 13:24 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 106 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/06/22 13:24 | TPH 8015M | |
| Total Petroleum Hydrocarbon | 5410 | 284 | mg/kg dry | 10 | [CALC] | 12/06/22 09:00 | 12/06/22 13:24 | calc | |
| C6-C35 | | | | | - | | | | |
| General Chemistry Parameters by | EPA / Stand | lard Metl | nods | | | | | | |
| Chloride | 312 | 1.14 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 10:02 | EPA 300.0 | |
| % Moisture | 12.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

North Sidewall @ 6" 2L02013-04 (Soil)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|---------------------------------------|-------------|--------------------|-----------|-----------|-------------|----------------|----------------|------------|------|
| | resurt | | | | | • | , | | |
| | | P | ermian B | asin Envi | ronmental L | ab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00112 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Toluene | ND | 0.00112 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Ethylbenzene | ND | 0.00112 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00225 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Xylene (o) | ND | 0.00112 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 87.1 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:26 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6 | -C35 by EP | A Method | 8015M | | | | | | |
| C6-C12 | ND | 28.1 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/06/22 13:45 | TPH 8015M | |
| >C12-C28 | ND | 28.1 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/06/22 13:45 | TPH 8015M | |
| >C28-C35 | ND | 28.1 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/06/22 13:45 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 106 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/06/22 13:45 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 118 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/06/22 13:45 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | ND | 28.1 | mg/kg dry | 1 | [CALC] | 12/06/22 09:00 | 12/06/22 13:45 | calc | |
| General Chemistry Parameters by | EPA / Stand | lard Metl | hods | | | | | | |
| Chloride | 142 | 1.12 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 10:15 | EPA 300.0 | |
| % Moisture | 11.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

East Sidewall @ 6" 2L02013-05 (Soil)

| | | Reporting | | | | | | | |
|---------------------------------------|-------------|-----------|-----------|-----------|-------------|----------------|----------------|------------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| | | P | ermian B | asin Envi | ronmental I | ab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00110 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Toluene | ND | 0.00110 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Ethylbenzene | ND | 0.00110 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00220 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Xylene (o) | ND | 0.00110 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 87.6 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 104 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/05/22 23:47 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | A Method | 8015M | | | | | | |
| C6-C12 | ND | 27.5 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 11:47 | TPH 8015M | |
| >C12-C28 | 1160 | 27.5 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 11:47 | TPH 8015M | |
| >C28-C35 | 523 | 27.5 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 11:47 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 102 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 11:47 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 115 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 11:47 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 1680 | 27.5 | mg/kg dry | 1 | [CALC] | 12/06/22 09:00 | 12/08/22 11:47 | calc | |
| General Chemistry Parameters by | EPA / Stanc | lard Met | hods | | | | | | |
| Chloride | 324 | 1.10 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 10:55 | EPA 300.0 | |
| % Moisture | 9.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

South Sidewall @ 6" 2L02013-06 (Soil)

| | | Reporting | | | | | | | |
|---------------------------------------|-------------|-----------|-----------|-----------|-------------|----------------|----------------|------------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| | | P | ermian B | asin Envi | ronmental I | ab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00109 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Toluene | ND | 0.00109 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Ethylbenzene | ND | 0.00109 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00217 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Xylene (o) | ND | 0.00109 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 99.4 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 87.3 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/06/22 00:08 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | A Method | 8015M | | | | | | |
| C6-C12 | ND | 27.2 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:08 | TPH 8015M | |
| >C12-C28 | 335 | 27.2 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:08 | TPH 8015M | |
| >C28-C35 | 155 | 27.2 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:08 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 104 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 12:08 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 116 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 12:08 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 490 | 27.2 | mg/kg dry | 1 | [CALC] | 12/06/22 09:00 | 12/08/22 12:08 | calc | |
| General Chemistry Parameters by 1 | EPA / Stand | lard Met | hods | | | | | | |
| Chloride | 668 | 1.09 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 11:35 | EPA 300.0 | |
| % Moisture | 8.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

West Sidewall @ 6" 2L02013-07 (Soil)

| | | Reporting | | | | | | | |
|---------------------------------------|-------------|-----------|-----------|-----------|-------------|----------------|----------------|------------|------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
| | | P | ermian B | asin Envi | ronmental I | ab, L.P. | | | |
| BTEX by 8021B | | | | | | | | | |
| Benzene | ND | 0.00111 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Toluene | ND | 0.00111 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Ethylbenzene | ND | 0.00111 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Xylene (p/m) | ND | 0.00222 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Xylene (o) | ND | 0.00111 | mg/kg dry | 1 | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Surrogate: 1,4-Difluorobenzene | | 86.4 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Surrogate: 4-Bromofluorobenzene | | 109 % | 80-120 | | P2L0503 | 12/05/22 13:09 | 12/06/22 00:29 | EPA 8021B | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | A Method | 8015M | | | | | | |
| C6-C12 | ND | 27.8 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:30 | TPH 8015M | |
| >C12-C28 | 650 | 27.8 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:30 | TPH 8015M | |
| >C28-C35 | 286 | 27.8 | mg/kg dry | 1 | P2L0602 | 12/06/22 09:00 | 12/08/22 12:30 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | | 99.8 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 12:30 | TPH 8015M | |
| Surrogate: o-Terphenyl | | 110 % | 70-130 | | P2L0602 | 12/06/22 09:00 | 12/08/22 12:30 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 937 | 27.8 | mg/kg dry | 1 | [CALC] | 12/06/22 09:00 | 12/08/22 12:30 | calc | |
| General Chemistry Parameters by 1 | EPA / Stand | lard Met | hods | | | | | | |
| Chloride | 26.7 | 1.11 | mg/kg dry | 1 | P2L0505 | 12/05/22 15:51 | 12/06/22 11:48 | EPA 300.0 | |
| % Moisture | 10.0 | 0.1 | % | 1 | P2L0707 | 12/07/22 13:14 | 12/07/22 13:37 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Analyte | Result | Limit | Units | Level | Resuit | %REC | Limits | KPD | Limit | Notes |
| Batch P2L0503 - *** DEFAULT PREP ** | ** | | | | | | | | | |
| Blank (P2L0503-BLK1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | ND | 0.00100 | mg/kg | | | | | | | |
| Toluene | ND | 0.00100 | " | | | | | | | |
| Ethylbenzene | ND | 0.00100 | " | | | | | | | |
| Xylene (p/m) | ND | 0.00200 | " | | | | | | | |
| Xylene (o) | ND | 0.00100 | " | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.119 | | " | 0.120 | | 99.2 | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.101 | | " | 0.120 | | 84.6 | 80-120 | | | |
| LCS (P2L0503-BS1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.102 | 0.00100 | mg/kg | 0.100 | • | 102 | 80-120 | | | |
| Toluene | 0.108 | 0.00100 | " | 0.100 | | 108 | 80-120 | | | |
| Ethylbenzene | 0.114 | 0.00100 | " | 0.100 | | 114 | 80-120 | | | |
| Xylene (p/m) | 0.195 | 0.00200 | " | 0.200 | | 97.6 | 80-120 | | | |
| Xylene (o) | 0.110 | 0.00100 | " | 0.100 | | 110 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.138 | | " | 0.120 | | 115 | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.107 | | " | 0.120 | | 89.4 | 80-120 | | | |
| LCS Dup (P2L0503-BSD1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.115 | 0.00100 | mg/kg | 0.100 | | 115 | 80-120 | 11.9 | 20 | |
| Гoluene | 0.119 | 0.00100 | " | 0.100 | | 119 | 80-120 | 10.2 | 20 | |
| Ethylbenzene | 0.118 | 0.00100 | " | 0.100 | | 118 | 80-120 | 4.00 | 20 | |
| Xylene (p/m) | 0.211 | 0.00200 | " | 0.200 | | 105 | 80-120 | 7.56 | 20 | |
| Xylene (o) | 0.119 | 0.00100 | " | 0.100 | | 119 | 80-120 | 7.83 | 20 | |
| Surrogate: 1,4-Difluorobenzene | 0.108 | | " | 0.120 | | 89.8 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.137 | | " | 0.120 | | 114 | 80-120 | | | |
| Calibration Blank (P2L0503-CCB1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.00 | | ug/kg | | | | | | | |
| Toluene | 0.00 | | " | | | | | | | |
| Ethylbenzene | 0.00 | | " | | | | | | | |
| Xylene (p/m) | 0.140 | | " | | | | | | | |
| Xylene (o) | 0.00 | | " | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 0.128 | | " | 0.120 | | 107 | 80-120 | | | |
| | | | | | | | | | | |

Permian Basin Environmental Lab, L.P.

Surrogate: 1,4-Difluorobenzene

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81.6

80-120

0.120

0.0980

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch P2L0503 - *** DEFAULT PREP *** | | | | | | | | | | |
| Calibration Blank (P2L0503-CCB2) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.00 | | ug/kg | | | | | | | |
| Toluene | 0.00 | | " | | | | | | | |
| Ethylbenzene | 0.00 | | " | | | | | | | |
| Xylene (p/m) | 0.120 | | " | | | | | | | |
| Xylene (o) | 0.00 | | " | | | | | | | |
| Surrogate: 1,4-Difluorobenzene | 0.102 | | " | 0.120 | | 84.9 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.126 | | " | 0.120 | | 105 | 80-120 | | | |
| Calibration Check (P2L0503-CCV1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.0996 | 0.00100 | mg/kg | | | | 80-120 | | | |
| Toluene | 0.107 | 0.00100 | " | | | | 80-120 | | | |
| Ethylbenzene | 0.117 | 0.00100 | " | | | | 80-120 | | | |
| Xylene (p/m) | 0.193 | 0.00200 | " | | | | 80-120 | | | |
| Xylene (o) | 0.117 | 0.00100 | " | | | | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.102 | | " | 0.120 | | 85.0 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.129 | | " | 0.120 | | 107 | 75-125 | | | |
| Calibration Check (P2L0503-CCV2) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Benzene | 0.110 | 0.00100 | mg/kg | | | | 80-120 | | | |
| Toluene | 0.114 | 0.00100 | " | | | | 80-120 | | | |
| Ethylbenzene | 0.119 | 0.00100 | " | | | | 80-120 | | | |
| Xylene (p/m) | 0.197 | 0.00200 | " | | | | 80-120 | | | |
| Xylene (o) | 0.119 | 0.00100 | " | | | | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.107 | | " | 0.120 | | 89.5 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.131 | | " | 0.120 | | 109 | 75-125 | | | |
| Calibration Check (P2L0503-CCV3) | | | | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Benzene | 0.112 | 0.00100 | mg/kg | | | | 80-120 | | | |
| Toluene | 0.117 | 0.00100 | " | | | | 80-120 | | | |
| Ethylbenzene | 0.119 | 0.00100 | " | | | | 80-120 | | | |
| Xylene (p/m) | 0.199 | 0.00200 | " | | | | 80-120 | | | |
| Xylene (o) | 0.119 | 0.00100 | " | | | | 80-120 | | | |
| Surrogate: 1,4-Difluorobenzene | 0.105 | | " | 0.120 | | 87.6 | 75-125 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.132 | | " | 0.120 | | 110 | 75-125 | | | |

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100 Odessa TX, 79765

Surrogate: 1,4-Difluorobenzene

Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|----------|--------------------|-----------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch P2L0503 - *** DEFAULT PREP *** | | | | | | | | | | |
| Matrix Spike (P2L0503-MS1) | Sou | rce: 2L02002 | -01 | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Benzene | 0.0129 | 0.00103 | mg/kg dry | 0.103 | ND | 12.5 | 80-120 | | | QM-05 |
| Toluene | 0.0115 | 0.00103 | " | 0.103 | ND | 11.1 | 80-120 | | | QM-05 |
| Ethylbenzene | 0.0180 | 0.00103 | " | 0.103 | ND | 17.4 | 80-120 | | | QM-05 |
| Xylene (p/m) | 0.00540 | 0.00206 | " | 0.206 | ND | 2.62 | 80-120 | | | QM-05 |
| Xylene (o) | 0.0302 | 0.00103 | " | 0.103 | ND | 29.3 | 80-120 | | | QM-05 |
| Surrogate: 1,4-Difluorobenzene | 0.111 | | " | 0.124 | | 89.9 | 80-120 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.123 | | " | 0.124 | | 99.3 | 80-120 | | | |
| Matrix Spike Dup (P2L0503-MSD1) | Sou | ırce: 2L02002 | -01 | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Benzene | 0.00410 | 0.00103 | mg/kg dry | 0.103 | ND | 3.98 | 80-120 | 103 | 20 | QM-05 |
| Toluene | 0.00374 | 0.00103 | " | 0.103 | ND | 3.63 | 80-120 | 102 | 20 | QM-05 |
| Ethylbenzene | 0.00368 | 0.00103 | " | 0.103 | ND | 3.57 | 80-120 | 132 | 20 | QM-05 |
| Xylene (p/m) | ND | 0.00206 | " | 0.206 | ND | | 80-120 | | 20 | QM-05 |
| Xylene (o) | 0.000639 | 0.00103 | " | 0.103 | ND | 0.620 | 80-120 | 192 | 20 | QM-05 |
| Surrogate: 4-Bromofluorobenzene | 0.131 | | " | 0.124 | | 106 | 80-120 | | | |

0.124

90.5

80-120

0.112

Project: Quail Queen #002

13000 West County Road 100 Odessa TX, 79765 Project Number: 15661 Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Batch P2L0601 - TX 1005 | | | | | | | | | | |
| Blank (P2L0601-BLK1) | | | | Prepared & | z Analyzed: | 12/06/22 | | | | |
| C6-C12 | ND | 25.0 | mg/kg | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 109 | | " | 100 | | 109 | 70-130 | | | |
| Surrogate: o-Terphenyl | 57.7 | | " | 50.0 | | 115 | 70-130 | | | |
| LCS (P2L0601-BS1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 804 | 25.0 | mg/kg | 1000 | | 80.4 | 75-125 | | | |
| >C12-C28 | 820 | 25.0 | " | 1000 | | 82.0 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 120 | | " | 100 | | 120 | 70-130 | | | |
| Surrogate: o-Terphenyl | 56.7 | | " | 50.0 | | 113 | 70-130 | | | |
| LCS Dup (P2L0601-BSD1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 810 | 25.0 | mg/kg | 1000 | | 81.0 | 75-125 | 0.798 | 20 | |
| >C12-C28 | 840 | 25.0 | " | 1000 | | 84.0 | 75-125 | 2.50 | 20 | |
| Surrogate: 1-Chlorooctane | 124 | | " | 100 | | 124 | 70-130 | | | |
| Surrogate: o-Terphenyl | 57.8 | | " | 50.0 | | 116 | 70-130 | | | |
| Calibration Blank (P2L0601-CCB1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 9.88 | | mg/kg | | | | | | | |
| >C12-C28 | 9.19 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 108 | | " | 100 | | 108 | 70-130 | | | |
| Surrogate: o-Terphenyl | 56.3 | | " | 50.0 | | 113 | 70-130 | | | |
| Calibration Blank (P2L0601-CCB2) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 8.88 | | mg/kg | | | | | | | |
| >C12-C28 | 7.03 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 110 | | " | 100 | | 110 | 70-130 | | | |
| Surrogate: o-Terphenyl | 59.2 | | " | 50.0 | | 118 | 70-130 | | | |

Permian Basin Environmental Lab, L.P.

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Project Number: 15661 Project Manager: Blake Estep

13000 West County Road 100 Odessa TX, 79765

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|--------------------|-----------|----------------|------------------|----------|----------------|------|--------------|--------|
| | Result | Liiiit | Ollits | Level | Result | 70KEC | Limits | KI D | Lillit | rvoics |
| Batch P2L0601 - TX 1005 | | | | | | | | | | |
| Calibration Check (P2L0601-CCV1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 471 | 25.0 | mg/kg | 500 | | 94.1 | 85-115 | | | |
| >C12-C28 | 472 | 25.0 | " | 500 | | 94.4 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 115 | | " | 100 | | 115 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.2 | | " | 50.0 | | 116 | 70-130 | | | |
| Calibration Check (P2L0601-CCV2) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 475 | 25.0 | mg/kg | 500 | | 94.9 | 85-115 | | | |
| >C12-C28 | 507 | 25.0 | " | 500 | | 101 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 119 | | " | 100 | | 119 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.4 | | " | 50.0 | | 117 | 70-130 | | | |
| Calibration Check (P2L0601-CCV3) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 494 | 25.0 | mg/kg | 500 | | 98.7 | 85-115 | | | |
| >C12-C28 | 504 | 25.0 | " | 500 | | 101 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 121 | | " | 100 | | 121 | 70-130 | | | |
| Surrogate: o-Terphenyl | 63.0 | | " | 50.0 | | 126 | 70-130 | | | |
| Duplicate (P2L0601-DUP1) | Sou | rce: 2L02006 | -11 | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 505 | 281 | mg/kg dry | | ND | | | 164 | 20 | |
| >C12-C28 | 4700 | 281 | " | | 462 | | | 164 | 20 | |
| Surrogate: 1-Chlorooctane | 132 | | " | 112 | | 118 | 70-130 | | | |
| Surrogate: o-Terphenyl | 63.1 | | " | 56.2 | | 112 | 70-130 | | | |
| Batch P2L0602 - TX 1005 | | | | | | | | | | |
| Blank (P2L0602-BLK1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | ND | 25.0 | mg/kg | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 116 | | " | 100 | | 116 | 70-130 | | | |
| Surrogate: o-Terphenyl | 62.8 | | " | 50.0 | | 126 | 70-130 | | | |

Project: Quail Queen #002

13000 West County Road 100 Odessa TX, 79765 Project Number: 15661
Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | |
|----------------------------------|--------|-----------|-------|------------|-------------|------------|--------|------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P2L0602 - TX 1005 | | | | | | | | | | |
| LCS (P2L0602-BS1) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 786 | 25.0 | mg/kg | 1000 | | 78.6 | 75-125 | | | |
| >C12-C28 | 871 | 25.0 | " | 1000 | | 87.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 120 | | " | 100 | | 120 70-130 | 70-130 | | | |
| Surrogate: o-Terphenyl | 62.9 | | " | 50.0 | | 126 | 70-130 | | | |
| LCS Dup (P2L0602-BSD1) | | | | Prepared & | : Analyzed: | 12/06/22 | | | | |
| C6-C12 | 812 | 25.0 | mg/kg | 1000 | · | 81.2 | 75-125 | 3.23 | 20 | |
| >C12-C28 | 861 | 25.0 | " | 1000 | | 86.1 | 75-125 | 1.12 | 20 | |
| Surrogate: 1-Chlorooctane | 116 | | " | 100 | | 116 | 70-130 | | | |
| Surrogate: o-Terphenyl | 59.6 | | " | 50.0 | | 119 | 70-130 | | | |
| Calibration Blank (P2L0602-CCB1) | | | | Prepared & | : Analyzed: | 12/06/22 | | | | |
| C6-C12 | 16.8 | | mg/kg | | | | | | | |
| >C12-C28 | 6.25 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 108 | | " | 100 | | 108 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.1 | | " | 50.0 | | 116 | 70-130 | | | |
| Calibration Blank (P2L0602-CCB2) | | | | Prepared & | : Analyzed: | 12/06/22 | | | | |
| C6-C12 | 10.3 | | mg/kg | | | | | | | |
| >C12-C28 | 14.4 | | " | | | | | | | |
| Surrogate: 1-Chlorooctane | 110 | | " | 100 | | 110 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.7 | | " | 50.0 | | 117 | 70-130 | | | |
| Calibration Check (P2L0602-CCV1) | | | | Prepared & | : Analyzed: | 12/06/22 | | | | |
| C6-C12 | 459 | 25.0 | mg/kg | 500 | | 91.7 | 85-115 | | | |
| >C12-C28 | 530 | 25.0 | " | 500 | | 106 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 130 | | " | 100 | | 130 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.3 | | " | 50.0 | | 117 | 70-130 | | | |

Project: Quail Queen #002 Project Number: 15661

13000 West County Road 100 Odessa TX, 79765

Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| | - | Reporting | ** * | Spike | Source | 0/755 | %REC | | RPD | 27. |
|----------------------------------|--------|--------------|-----------|-------------|------------|-------------|--------|-------|-------|-------|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Batch P2L0602 - TX 1005 | | | | | | | | | | |
| Calibration Check (P2L0602-CCV2) | | | | Prepared & | Analyzed: | 12/06/22 | | | | |
| C6-C12 | 472 | 25.0 | mg/kg | 500 | | 94.4 | 85-115 | | | |
| >C12-C28 | 507 | 25.0 | " | 500 | | 101 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 109 | | " | 100 | | 109 | 70-130 | | | |
| Surrogate: o-Terphenyl | 59.8 | | " | 50.0 | | 120 | 70-130 | | | |
| Calibration Check (P2L0602-CCV3) | | | | Prepared: 1 | 12/06/22 A | nalyzed: 12 | /07/22 | | | |
| C6-C12 | 472 | 25.0 | mg/kg | 500 | | 94.4 | 85-115 | | | |
| >C12-C28 | 523 | 25.0 | " | 500 | | 105 | 85-115 | | | |
| Surrogate: 1-Chlorooctane | 114 | | " | 100 | | 114 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58.2 | | " | 50.0 | | 116 | 70-130 | | | |
| Duplicate (P2L0602-DUP1) | Sou | rce: 2L02013 | -03 | Prepared: 1 | 12/06/22 A | nalyzed: 12 | /07/22 | | | |
| C6-C12 | 158 | 284 | mg/kg dry | | 115 | | | 31.5 | 20 | |
| >C12-C28 | 3860 | 284 | " | | 3870 | | | 0.268 | 20 | |
| Surrogate: 1-Chlorooctane | 115 | | " | 114 | | 101 | 70-130 | | | |
| Surrogate: o-Terphenyl | 61.9 | | " | 56.8 | | 109 | 70-130 | | | |

13000 West County Road 100 Project Number: 15661
Odessa TX, 79765 Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-----------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch P2L0505 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P2L0505-BLK1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Chloride | ND | 1.00 | mg/kg | | | | | | | |
| LCS (P2L0505-BS1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Chloride | 20.3 | | mg/kg | 20.0 | | 102 | 90-110 | | | |
| LCS Dup (P2L0505-BSD1) | | | | Prepared & | x Analyzed: | 12/05/22 | | | | |
| Chloride | 20.8 | | mg/kg | 20.0 | | 104 | 90-110 | 2.61 | 10 | |
| Calibration Blank (P2L0505-CCB1) | | | | Prepared & | Analyzed: | 12/05/22 | | | | |
| Chloride | 0.0570 | | mg/kg | | | | | | | |
| Calibration Blank (P2L0505-CCB2) | | | | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Chloride | 0.158 | | mg/kg | | | | | | | |
| Calibration Check (P2L0505-CCV1) | | | | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /07/22 | | | |
| Chloride | 18.6 | | mg/kg | 20.0 | | 93.1 | 90-110 | | | |
| Calibration Check (P2L0505-CCV2) | | | | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /07/22 | | | |
| Chloride | 18.4 | | mg/kg | 20.0 | | 92.0 | 90-110 | | | |
| Calibration Check (P2L0505-CCV3) | | | | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Chloride | 20.6 | | mg/kg | 20.0 103 | | 90-110 | | | | |
| Matrix Spike (P2L0505-MS1) | Sou | rce: 2L02006 | -05 | Prepared & | z Analyzed: | 12/05/22 | | | | |
| Chloride | 577 | 1.08 | mg/kg dry | 269 | 308 | 100 | 80-120 | | | |
| Matrix Spike (P2L0505-MS2) | Sou | rce: 2L02013 | -05 | Prepared: 1 | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Chloride | 527 | 1.10 | mg/kg dry | 275 | 324 | 73.9 | 80-120 | | | QM-0 |

13000 West County Road 100Project Number: 15661Odessa TX, 79765Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|---|--------------------|-----------|----------------|------------------|-------------|----------------|-------|--------------|-------|
| Batch P2L0505 - *** DEFAULT PREP *** | | | | | | | | | | |
| Matrix Spike Dup (P2L0505-MSD1) | Sou | rce: 2L02006 | -05 | Prepared & | ኔ Analyzed: | 12/05/22 | | | | |
| Chloride | 544 | 1.08 | mg/kg dry | 269 | 308 | 88.1 | 80-120 | 5.82 | 20 | |
| Matrix Spike Dup (P2L0505-MSD2) | Sou | rce: 2L02013 | -05 | Prepared: | 12/05/22 A | nalyzed: 12 | /06/22 | | | |
| Chloride | 525 | 1.10 | mg/kg dry | 275 | 324 | 73.3 | 80-120 | 0.307 | 20 | QM-05 |
| Batch P2L0707 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P2L0707-BLK1) | | | | Prepared & | k Analyzed: | 12/07/22 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Blank (P2L0707-BLK2) | | | | Prepared & | ኔ Analyzed: | 12/07/22 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Duplicate (P2L0707-DUP1) | Sou | rce: 2L02013 | -04 | Prepared & | k Analyzed: | 12/07/22 | | | | |
| % Moisture | 11.0 | 0.1 | % | | 11.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP2) | Sou | rce: 2L02014 | -07 | Prepared & | t Analyzed: | 12/07/22 | | | | |
| % Moisture | 6.0 | 0.1 | % | - | 6.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP3) | Sou | rce: 2L02016 | -13 | Prepared & | ኔ Analyzed: | 12/07/22 | | | | |
| % Moisture | 14.0 | 0.1 | % | • | 14.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP4) | (P2L0707-DUP4) Source: 2L02016-23 Prepared & Analyzed: 12/07/22 | | 12/07/22 | | | | | | | |
| % Moisture | 12.0 | 0.1 | % | | 12.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP5) | Sou | rce: 2L02016 | -38 | Prepared & | k Analyzed: | 12/07/22 | | | | |
| % Moisture | 8.0 | 0.1 | % | | 8.0 | | | 0.00 | 20 | |

13000 West County Road 100 Project Number: 15661
Odessa TX, 79765 Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|------|--------------|-------|
| Batch P2L0707 - *** DEFAULT PREP *** | | | | | | | | | | |
| Duplicate (P2L0707-DUP6) | Sou | rce: 2L02016- | 48 | Prepared & | Analyzed: | 12/07/22 | | | | |
| % Moisture | 11.0 | 0.1 | % | | 11.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP7) | Sou | rce: 2L02016- | 63 | Prepared & | Analyzed: | 12/07/22 | | | | |
| % Moisture | 11.0 | 0.1 | % | | 11.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUP8) | Sou | rce: 2L05002- | 10 | Prepared & | Analyzed: | 12/07/22 | | | | |
| % Moisture | 9.0 | 0.1 | % | | 10.0 | | | 10.5 | 20 | |
| Duplicate (P2L0707-DUP9) | Sou | rce: 2L05011-0 |)2 | Prepared & | Analyzed: | 12/07/22 | | | | |
| % Moisture | 12.0 | 0.1 | % | | 12.0 | | | 0.00 | 20 | |
| Duplicate (P2L0707-DUPA) | Sour | rce: 2L05011-0 |)4 | Prepared & | Analyzed: | 12/07/22 | | | | |
| % Moisture | 9.0 | 0.1 | % | | 8.0 | | | 11.8 | 20 | |

13000 West County Road 100

Project Number: 15661

Project: Quail Queen #002

Odessa TX, 79765

Project Manager: Blake Estep

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD

were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL CO Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

| | Drew | Darron | | | |
|---------------------|------|--------|-------|-----------|--|
| Report Approved By: | | | Date: | 12/9/2022 | |

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Received by OCD: 5/3/2023 7:44:29 AM

Relinquished by:

Relinquished by:

dex Lone Star

Permian Basin Environmental Lab, LP

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| | | | |

Midland Texas 79701

Phone: 432-686-7235

Project Manager:

Blake Estep

Company Name:

Etech Environmental & Safety Solutions, Inc.

Date

Date

Time

Received by:

Company Address: P.O. Box 62228

City/State/Zip:

Midland, Texas 79711

Sampler Signature:

email: blake@etechenv.com

| | V | 1 | W | |
|----------------------------------|------|----|------|----|
| CHAIN OF CUSTODY RECORD AND ANAL | YSIS | ŔĖ | EQUE | ST |

| Project Name: Quai | Queen #002 |
|--------------------|-------------------------|
| Project #: /566/ | Project Loc: New Mexico |
| Area: | PO#: 15661 |
| Bill Etech | |

Sample Hand Delivered

Sar by Sampler/Client Rep. ? Sar by Courier? UPS I

Temperature Upon Receipt:

Date

Time

| | | | | | | | | | | | | | | R | epor | t Forr | nat: \$ | STAN | DARI | D: @ / | <u> </u> | RRP | | nalv | NP. | DES | <u>;:□</u> | | | | |
|-------------------------|-----------|-------|---|-------------|-----------|-----------------|--------------|-------------------|-----|---------------------|-------------|------|---|------|------------------|-----------------------------|--|--------------|-------------------------|-------------------------------|----------------------|---------------------------------|---------------------|-----------------------|------------------------|-----|------------|-----------|----------|-----------------------------|--------------|
| lab use only) ORDER#: 2 | L02013 | 3 | | | | | | | | | | | | | | | | | | TC TOT | LP: AL: | | | | | | | | | Ţ | <u> </u> |
| | | | | | Pre | servation & # o | f Containers | | | | | | | | | Ma | trix | 1006 | | | | ,e | | | 93 | П | | | \Box | 48. 72 hrs | |
| LAB# (lab use only) | | FIELD |) CODE | Start Depth | End Depth | Date Sampled | Time Sampled | No. of Containers | lce | HNO ₃ | HCI S3 H | NaOH | Na ₂ S ₂ O ₃ | None | Other (Specify) | DW=Drinking Water SL=Sludge | GW ≈ Groundwater S≈Soil/Soild NP=Non-PotableSpecify Other | 1005 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semi volatiles | BTEX 8260 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | | RUSH TAT(Pre-Schedule) 24.4 | STANDARD TAT |
| 1 | Bottom | 1401 | e 1 | | 12" | 12-1-22 | 2:00 | 1 | M | | | | | | | _ < | <u> </u> | ¥ | | | | | | | ¥ | | | X | | |] X |
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| 3 | <i>''</i> | Į) | 3 | | 12" | | 2:04 | 1 | ф | | | | | | | | | D | | | | | | | TO I | 回 | | 中 | | | 可重 |
| Ú | Northe | 5,0 | ewall | | 6" | | 2:06 | 1 | ф | | | | | | | \Box | | Ф | | | | | | | 面 | | | 中 | | |] |
| 5 | East | | !' | | 6" | | 2:08 | 1 | ф | | | | | | | \Box | | ф | | | | | | | 申 | | | 4 | | | 5 4 |
| 6 | South | | , . | | 6" | | 2:10 | ١ | ф | | | | | | | | | | | | | | | | Ф | | | 可 | | |] [4 |
| 7 | West | | ** | | 6 | 1 | 2:12 | 1 | ф | | | | | | | П | | | | | | | | | 山 | | | TI) | | | 1 |
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| Special Instruct | | | Date 12 7 72 | Time | Receive | ed by: | | See also see 4000 | a | Park and the second | | | | | Date | • | | Time | s v c | abor ample OCs ustoo | Cor Free ly se | ntain of F als o | ers lead on c | Intac Ispa onta | ct? ce? iner(| (s) | | 7 | 3 | א מ ע | l L |

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Blake Estep
E Tech Environmental & Safety Solutions, Inc. [1]
13000 West County Road 100
Odessa, TX 79765

Project: Quail Queen #002 Project Number: 15661 Location: New Mexico

Lab Order Number: 3A05005



Current Certification

Report Date: 01/10/23

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------------------|---------------|--------|----------------|------------------|
| Bottom Hole - 3H @ 15" | 3A05005-01 | Soil | 01/03/23 11:00 | 01-05-2023 12:35 |
| East Sidewall 1A @ 6" | 3A05005-02 | Soil | 01/03/23 11:30 | 01-05-2023 12:35 |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Bottom Hole - 3H @ 15" 3A05005-01 (Soil)

| | , | Reporting | | | | | | | |
|---|--------------|-----------|-----------|-----------|-------------|----------------|----------------|------------|-------|
| Analyte | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
| | | P | ermian B | asin Envi | ronmental L | ab, L.P. | | | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | Method | 8015M | | | | | | |
| C6-C12 | ND | 26.0 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:34 | TPH 8015M | |
| >C12-C28 | 846 | 26.0 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:34 | TPH 8015M | |
| >C28-C35 | 297 | 26.0 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:34 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | 9 | 00.7 % | 70-130 | | P3A0608 | 01/06/23 13:00 | 01/09/23 09:34 | TPH 8015M | |
| Surrogate: o-Terphenyl | 9 | 98.5 % | 70-130 | | P3A0608 | 01/06/23 13:00 | 01/09/23 09:34 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 1140 | 26.0 | mg/kg dry | 1 | [CALC] | 01/06/23 13:00 | 01/09/23 09:34 | calc | |
| General Chemistry Parameters by | EPA / Stand: | ard Metl | ıods | | | | | | |
| % Moisture | 4.0 | 0.1 | % | 1 | P3A0904 | 01/09/23 10:09 | 01/09/23 10:11 | ASTM D2216 | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

East Sidewall 1A @ 6" 3A05005-02 (Soil)

| Analyte | | Reporting | Linita | Dilution | Datah | Dronorad | Analyzed | Method | Notes |
|---------------------------------------|--------------|-----------|-----------|-----------|-------------|----------------|----------------|------------|-------|
| | Result | Limit | Units | Dilution | Batch | Prepared | Allalyzeu | Method | Notes |
| | | P | ermian B | asin Envi | ronmental L | ab, L.P. | | | |
| Total Petroleum Hydrocarbons C6- | C35 by EPA | Method | 8015M | | | | | | |
| C6-C12 | ND | 26.6 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:56 | TPH 8015M | |
| >C12-C28 | 348 | 26.6 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:56 | TPH 8015M | |
| >C28-C35 | 142 | 26.6 | mg/kg dry | 1 | P3A0608 | 01/06/23 13:00 | 01/09/23 09:56 | TPH 8015M | |
| Surrogate: 1-Chlorooctane | 8 | 39.4 % | 70-130 | | P3A0608 | 01/06/23 13:00 | 01/09/23 09:56 | TPH 8015M | |
| Surrogate: o-Terphenyl | 9 | 06.0 % | 70-130 | | P3A0608 | 01/06/23 13:00 | 01/09/23 09:56 | TPH 8015M | |
| Total Petroleum Hydrocarbon C6-C35 | 490 | 26.6 | mg/kg dry | 1 | [CALC] | 01/06/23 13:00 | 01/09/23 09:56 | calc | |
| General Chemistry Parameters by | EPA / Standa | ard Metl | hods | | | | | | |
| % Moisture | 6.0 | 0.1 | % | 1 | P3A0904 | 01/09/23 10:09 | 01/09/23 10:11 | ASTM D2216 | |

Project Number: 15661 Project Manager: Blake Estep

13000 West County Road 100 Odessa TX, 79765

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | | |
|----------------------------------|--------|---------------------------------------|-------|----------------|------------------|----------|----------------|--------|--------------|--------|--|--|
| | resuit | Limit | Cinto | Lovei | resuit | , utabe | Limito | IG D | Diiiit | 110103 | | |
| Batch P3A0608 - TX 1005 | | | | | | | | | | | | |
| Blank (P3A0608-BLK1) | | | | Prepared & | Analyzed: | 01/06/23 | | | | | | |
| C6-C12 | ND | 25.0 | mg/kg | | | | | | | | | |
| >C12-C28 | ND | 25.0 | " | | | | | | | | | |
| >C28-C35 | ND | 25.0 | " | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 85.3 | | " | 100 | | 85.3 | 70-130 | | | | | |
| Surrogate: o-Terphenyl | 46.9 | | " | 50.0 | | 93.8 | 70-130 | | | | | |
| LCS (P3A0608-BS1) | | | | Prepared & | Analyzed: | 01/06/23 | | | | | | |
| C6-C12 | 906 | 25.0 | mg/kg | 1000 | | 90.6 | 75-125 | | | | | |
| >C12-C28 | 893 | 25.0 | " | 1000 | | 89.3 | 75-125 | | | | | |
| Surrogate: 1-Chlorooctane | 127 | | " | 100 | | 127 | 70-130 | | | | | |
| Surrogate: o-Terphenyl | 55.0 | | " | 50.0 | | 110 | 70-130 | | | | | |
| LCS Dup (P3A0608-BSD1) | | | | Prepared & | : Analyzed: | 01/06/23 | | | | | | |
| C6-C12 | 906 | 25.0 | mg/kg | 1000 | | 90.6 | 75-125 | 0.0585 | 20 | | | |
| >C12-C28 | 881 | 25.0 | " | 1000 | | 88.1 | 75-125 | 1.36 | 20 | | | |
| Surrogate: 1-Chlorooctane | 117 | | " | 100 | | 117 | 70-130 | | | | | |
| Surrogate: o-Terphenyl | 53.3 | | " | 50.0 | | 107 | 70-130 | | | | | |
| Calibration Check (P3A0608-CCV1) | | | | Prepared & | : Analyzed: | 01/06/23 | | | | | | |
| C6-C12 | 484 | 25.0 | mg/kg | 500 | | 96.8 | 85-115 | | | | | |
| >C12-C28 | 469 | 25.0 | " | 500 | | 93.8 | 85-115 | | | | | |
| Surrogate: 1-Chlorooctane | 104 | | " | 100 | | 104 | 70-130 | | | | | |
| Surrogate: o-Terphenyl | 49.0 | | " | 50.0 | | 98.0 | 70-130 | | | | | |
| Calibration Check (P3A0608-CCV2) | | Prepared: 01/06/23 Analyzed: 01/07/23 | | | | | | | | | | |
| C6-C12 | 476 | 25.0 | mg/kg | 500 | | 95.2 | 85-115 | | | | | |
| >C12-C28 | 466 | 25.0 | " | 500 | | 93.2 | 85-115 | | | | | |
| Surrogate: 1-Chlorooctane | 104 | | " | 100 | | 104 | 70-130 | | | | | |
| Surrogate: o-Terphenyl | 52.2 | | " | 50.0 | | 104 | 70-130 | | | | | |

13000 West County Road 100 Project Number: 15661
Odessa TX, 79765 Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

| | | Reporting | | Spike | Source | | %REC | | RPD | | | | |
|----------------------------------|--------|---------------------------------------|-----------|-------------|------------|-------------|--------|-------|-------|-------|--|--|--|
| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes | | | |
| Batch P3A0608 - TX 1005 | | | | | | | | | | | | | |
| Calibration Check (P3A0608-CCV3) | | Prepared: 01/06/23 Analyzed: 01/07/23 | | | | | | | | | | | |
| C6-C12 | 484 | 25.0 | mg/kg | 500 | | 96.7 | 85-115 | | | | | | |
| >C12-C28 | 462 | 25.0 | " | 500 | | 92.4 | 85-115 | | | | | | |
| Surrogate: 1-Chlorooctane | 104 | | " | 100 | | 104 | 70-130 | | | | | | |
| Surrogate: o-Terphenyl | 50.4 | | " | 50.0 | | 101 | 70-130 | | | | | | |
| Duplicate (P3A0608-DUP1) | Sour | ce: 3A05005 | -01 | Prepared: (| 01/06/23 A | nalyzed: 01 | /07/23 | | | | | | |
| C6-C12 | ND | 260 | mg/kg dry | | ND | | | | 20 | | | | |
| >C12-C28 | 850 | 260 | " | | 846 | | | 0.472 | 20 | | | | |
| Surrogate: 1-Chlorooctane | 83.3 | | " | 104 | | 80.0 | 70-130 | | | | | | |
| Surrogate: o-Terphenyl | 45.5 | | " | 52.1 | | 87.4 | 70-130 | | | | | | |

13000 West County Road 100 Odessa TX, 79765 Project: Quail Queen #002

Project Number: 15661
Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------|--------------------|--------------------|-------|-------------------------------|------------------|----------|----------------|------|--------------|-------|
| Batch P3A0904 - *** DEFAULT PREP *** | | | | | | | | | | |
| Blank (P3A0904-BLK1) | | | | Prepared & | Analyzed: | 01/09/23 | | | | |
| % Moisture | ND | 0.1 | % | | | | | | | |
| Blank (P3A0904-BLK2) | | | | Prepared & | Analyzed: | 01/09/23 | | | | |
| % Moisture | ND | 0.1 | % | | - | | | | | |
| Duplicate (P3A0904-DUP1) | Source: 3A05011-02 | | | Prepared & | Analyzed: | 01/09/23 | | | | |
| % Moisture | 18.0 | 0.1 | % | | 19.0 | | | 5.41 | 20 | |
| Duplicate (P3A0904-DUP2) | Sou | rce: 3A05012- | 05 | Prepared & | Analyzed: | 01/09/23 | | | | |
| % Moisture | 10.0 | 0.1 | % | | 13.0 | | | 26.1 | 20 | R3 |
| Duplicate (P3A0904-DUP3) | Sou | rce: 3A05012- | 20 | Prepared & Analyzed: 01/09/23 | | | | | | |
| % Moisture | 7.0 | 0.1 | % | - | 7.0 | | | 0.00 | 20 | |
| Duplicate (P3A0904-DUP4) | Source: 3A05012-30 | | | Prepared & | Analyzed: | 01/09/23 | | | | |
| % Moisture | 9.0 | 0.1 | % | - | 9.0 | | | 0.00 | 20 | |

13000 West County Road 100

Odessa TX, 79765

Project: Quail Queen #002

Project Number: 15661 Project Manager: Blake Estep

Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

NPBEL Ct Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

| | Drew | Devicor C | | |
|---------------------|------|-----------|-------|-----------|
| Report Approved By: | | | Date: | 1/10/2023 |

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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Page 9 of 9

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland Texas 79701

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Project Manager:

Blake Estep

Company Name:

Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 62228

City/State/Zip: Midland, Texas 79711
Sampler Signature: Delfon Pett-

email: __blake@etechenv.com

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| CHAIN OF CUSTODY | REC | Οŀ | ŖĽ | , | AND | `ANALYSIS | REQUEST |

| Project Name | | Queen | #002 |
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| Project #: 15 | 661 Pr | oject Loc: | |
| Area: | | PO#: 1566 | اه |

☑Bill Etech

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| (lab use only) ORDER#: | 4.05005 | | | | | | | | | | | | | | | | | | | TCI TOTA | _ | | | | 믬 | | | | | g | |
| <u> </u> | | | | | Pre | servation & # of | Containers | | | | | | | | | Mat | rix | 9 | | | \dashv | \dashv | | | _ | + | \dashv | + | + | — ² 2 | |
| LAB#(lab use only) | FIELD CODE | | · . | Start Depth | End Depth | Date Sampled | Time Sampled | No. of Containers | lce | HNO₃ | HCI | H ₂ SO ₄ | NaOH | None | Other (Specify) | DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid | П | TPH: 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semi volatiles | BTEX 8021B/5030 or BTEX 8260 | RCI | N.O.R.M. | Chlorides | | RUSH TATIPre-Schedule) 24, 48, 72 hrs | STANDARD TAT |
| | BOREZER Rotton | Hole | 34 | | 15" | 1.3.23 | 11:00 | 1 | × | | | | | | | 5 | | ¥ | | | | | | | | |] [| | | | |
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| Special Instruct | tions: | Date 1-5-23 | Time 17235 | Par | Receiv | ed by: | samothis, in e caso | . 15-12-5 | 100, 1. : | E 42 - 100 E 43 | er ers. mars. | - Marino | | | Date | e Harrista | 1 | îme | Si V Ci Ci | abora ample OCs I ustodustod ample | Cor Free y se y se | itaine of H als c als c | ers li lead: on co | ntact s pac ontair ooler | ? e? ner(s |) | | | Ì | N N N N | |
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 213005

CONDITIONS

| Operator: | OGRID: |
|--|--|
| CHEVRON U S A INC | 4323 |
| 6301 Deauville Blvd Midland, TX 79706 | Action Number: 213005 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | | Condition Date |
|------------|------|-------------------|
| amaxwell | None | 5/3/2023 |